DOCUMENT RESUME

ED 459 997 SE 065 453

| | |
|---|---|
| AUTHOR | Hill, Susan T. |
| TITLE | Science and Engineering Doctorate Awards: 2000. Detailed Statistical Tables. |
| INSTITUTION | National Science Foundation, Arlington, VA. Div. of Science Resources Studies. |
| REPORT NO | NSF-02-305 |
| PUB DATE | 2001-11-00 |
| NOTE | 103p.; For 1999 data, see ED 451 054. |
| AVAILABLE FROM | National Science Foundation, Div. of Science Resources Studies, 4201 Wilson Blvd., Suite 965, Arlington, VA 22230. Tel: 301-947-2722; e-mail: paperpubs@nsf.gov. For full text: http://www.nsf.gov/sbe/srs/. |
| PUB TYPE | Numerical/Quantitative Data (110) |
| EDRS PRICE | MF01/PC05 Plus Postage. |
| DESCRIPTORS | Citizenship; *Doctoral Degrees; *Engineering; Ethnicity; Females; *Graduate Surveys; Higher Education; *Sciences; Sex Differences |
| IDENTIFIERS | *Women in Science |

ABSTRACT

This report presents detailed statistical trends in doctorate rewards by science and engineering (S&E). The data were collected by the Survey of Earned Doctorates (SED) and identify field and recipient characteristics, institutions awarding doctorates, and post graduation plans of recipients. Tables include: (1) S&E doctorates awarded by field of study and year of doctorate; (2) S&E doctorates awarded to women by field of study and year of doctorate; (3) S&E doctorates awarded by citizenship status, sex, racial/ethnic group, and major field of study of recipients; (4) S&E doctorates awarded by major field and citizenship status of recipients; (5) percentage distribution of science and engineering doctorates awarded by major field and citizenship status of recipients; (6) non-U.S. citizens awarded doctorates in science and engineering by country of citizenship, visa type, and year of doctorate; (7) institutions conferring S&E doctorates by state, institution, and major field; (8) postgraduation plans of S&E doctorate recipients by citizenship status and major field; (9) percentage distribution of definite postgraduation plans of S&E doctorate recipients by citizenship status and major field; (10) postgraduation plans of S&E doctorate recipients (U.S. citizens and non-U.S. citizens with permanent visas) by sex and major field; and (11) percentage distribution of definite postgraduation plans of S&E doctorate recipients (U.S. citizens and non-U.S. citizens with permanent visas) by sex and major field. (YDS)

Reproductions supplied by EDRS are the best that can be made
from the original document.

ED 459 997

# Science and Engineering Doctorate Awards: 2000

Detailed Statistical Tables

U.S. DEPARTMENT OF EDUCATION
Office of Educational Research and Improvement
EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)
This document has been reproduced as received from the person or organization originating it.
☐ Minor changes have been made to improve reproduction quality.
• Points of view or opinions stated in this document do not necessarily represent official OERI position or policy.

BEST COPY AVAILABLE

Division of Science Resources Statistics
Directorate for Social, Behavioral, and Economic Sciences
National Science Foundation

November 2001

# Science and Engineering Doctorate Awards: 2000

Detailed Statistical Tables

Susan T. Hill, Author

Division of Science Resources Statistics
Directorate for Social, Behavioral, and Economic Sciences

National Science Foundation

November 2001

**National Science Foundation**
Rita R. Colwell
*Director*

**Directorate for Social, Behavioral, and Economic Sciences**
Norman M. Bradburn
*Director*

**Division of Science Resources Statistics**
Lynda T. Carlson
*Division Director*
Mary J. Frase
*Deputy Director*
Ronald S. Fecso
*Chief Statistician*

**Human Resources Statistics Program**
Mary J. Golladay
*Program Director*

**Division of Science Resources Statistics**

The Division of Science Resources Statistics (SRS) fulfills the legislative mandate of the National Science Foundation Act to ...

> *provide a central clearinghouse for the collection, interpretation, and analysis of data on scientific and engineering resources and to provide a source of information for policy formulation by other agencies of the Federal Government...*

To carry out this mandate, SRS designs, supports, and directs periodic surveys as well as a variety of other data collections and research projects. These surveys yield the materials for SRS staff to compile, analyze, and disseminate quantitative information about domestic and international resources devoted to science, engineering, and technology.

If you have any comments or suggestions about this or any other SRS product or report, we would like to hear from you. Please direct your comments to:

National Science Foundation
Division of Science Resources Statistics
4201 Wilson Blvd., Suite 965
Arlington, VA 22230
Telephone: (703) 292-8774
Fax: (703) 292-9092
e-mail: srsweb@nsf.gov

**Suggested Citation**
National Science Foundation, Division of Science Resources Statistics, *Science and Engineering Doctorate Awards: 2000*, NSF 02-305, Author, Susan T. Hill (Arlington, VA 2001).

November 2001

---

SRS data are available through the World Wide Web (http://www.nsf.gov/sbe/srs/stats.htm). For more information about obtaining reports, contact paperpubs@nsf.gov or call (301) 947-2722. For NSF's Telephonic Device for the Deaf, dial (703) 292-5090.

# ACKNOWLEDGMENTS

The development of *Science and Engineering Doctorate Awards: 2000,* was managed by Susan T. Hill, Director, Doctorate Data Project, National Science Foundation (NSF), Division of Science Resources Statistics (SRS), Human Resources Statistics Program (HRS), under the overall direction of Mary J. Golladay, Program Director, NSF, SRS, HRS and Mary J. Frase, Deputy Division Director. Julia H. Harriston and Tanya R. Gore, under the direction of John R. Gawalt, Program Director, Information and Technology Services Program, prepared the report for publication, providing oversight and direction for editing, composition, printing, and release on the SRS web site (www.nsf.gov/sbe/srs/). QRC Division of Macro, International prepared the tables. QRC staff members who worked on this project were Joe Singh, Teresa L. Grimes, Joseph Andorful, and Sujata Gamage.

# CONTENTS


*Section*

*Page*

GENERAL NOTES ..... vii

DETAILED STATISTICAL TABLES ..... 3

# General Notes

The data presented in this report show trends in doctorate awards by science and engineering (S&E) field and recipient characteristics, institutions awarding doctorates, and postgraduation plans of recipients. The source of the data is the Survey of Earned Doctorates (SED).

The SED has been conducted annually for the National Science Foundation (NSF) and five other Federal agencies. Information from this survey becomes part of the Doctorate Records File, which is a census of recipients of research doctorates awarded since 1920 by regionally-accredited universities and colleges. Doctoral degrees such as the Ph.D. or D. Sc. are included in these surveys, but first-professional degrees such as the J.D. or M.D. are not.

Data for the SED are collected directly from the individual doctorate recipients. The questionnaire is distributed through the cooperation of the Graduate Deans to persons as they are completing their doctorate. The data for a given year include all doctorates awarded in the 12-month period ending on June 30 of that year.

These tables present detailed data on S&E doctorate recipients, with some totals provided for broad non-S&E fields. Detailed data on non-S&E fields are published in the Summary Report and by other Federal sponsors of the Survey of Earned Doctorates. The groupings of field specialties into broad fields may differ among the sponsoring agencies according to their missions.

Approximately 92 percent of the annual cohort of doctorate recipients in 2000 responded to the questionnaire. Over the period 1991-2000, the response rate varied between 92 and 95 percent. Note that most of the numbers presented are actual self-reports, as there are no adjustments for nonresponse. For the nonrespondents, partial data from public sources are added to the file; therefore, complete counts are presented for conferred doctorates by field of study and sex of recipient. Because some tables present data subject to nonresponse, these summaries represent the conservative known responses for any data item. Therefore, small changes in numbers should be interpreted with caution, as numerical trends are affected by fluctuations in response rates and declines and increases may appear greater than they may be in reality.

For further information on the survey methodology or the availability of data on S&E doctorate recipients, please go to http://www.nsf.gov/sbe/srs/ssed/sedmeth.htm or contact–

Susan T. Hill
Division of Science Resources Statistics
National Science Foundation, Rm. 965
4201 Wilson Boulevard
Arlington, VA 22230

Telephone: (703) 292-7790
E-mail: sthill@nsf.gov

# LIST OF TABLES


| *Tables* | | *Page* |
|---|---|---|
| 1. | Science and engineering (S&E) doctorates awarded, by field of study and year of doctorate: 1991-2000 | 3 |
| 2. | Science and engineering (S&E) doctorates awarded to women, by field of study and year of doctorate: 1991-2000 | 9 |
| 3. | Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000 | 15 |
| 4. | Science and engineering (S&E) doctorates awarded, by major field and citizenship status of recipients: 1991-2000 | 45 |
| 4a. | Percentage distribution of science and engineering doctorates awarded, by major field and citizenship status of recipients: 1991-2000 | 52 |
| 5. | Non-U.S. citizens awarded doctorates in the sciences and in engineering, by country of citizenship, visa type, and year of doctorate: 1991-2000 | 56 |
| 6. | Institutions conferring science and engineering (S&E) doctorates, by State, institution, and major field: 2000 | 66 |
| 7. | Postgraduation plans of science and engineering (S&E) doctorate recipients, by citizenship status and major field: 2000 | 84 |
| 8. | Percentage distribution of definite postgraduation plans of science and engineering (S&E) doctorate recipients, by citizenship status and major field: 2000 | 88 |
| 9. | Postgraduation plans of science and engineering (S&E) doctorate recipients (U.S. citizens and non-U.S. citizens with permanent visas), by sex and major field: 2000 | 90 |
| 10. | Percentage distribution of definite postgraduation plans of science and engineering (S&E) doctorate recipients (U.S. citizens and non-U.S. citizens with permanent visas), by sex and major field: 2000 | 93 |

## Table 1. Science and engineering (S&E) doctorates awarded, by field of study and year of doctorate: 1991-2000



| Field of study | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|---|---|---|---|---|---|---|---|---|---|
| Science and engineering, total | 24,023 | 24,675 | 25,443 | 26,205 | 26,534 | 27,228 | 27,240 | 27,277 | 25,913 | 25,979 |
| Engineering, total | 5,214 | 5,438 | 5,698 | 5,822 | 6,008 | 6,305 | 6,114 | 5,927 | 5,328 | 5,330 |
| Aeronautical/astronautical engineering | 207 | 234 | 228 | 230 | 252 | 287 | 273 | 243 | 206 | 215 |
| Chemical engineering, total | 691 | 725 | 737 | 725 | 708 | 798 | 767 | 775 | 673 | 726 |
| Chemical | 621 | 607 | 624 | 630 | 602 | 681 | 662 | 668 | 576 | 620 |
| Petroleum | 28 | 54 | 52 | 42 | 48 | 52 | 51 | 48 | 45 | 44 |
| Polymer/plastics[1] | 42 | 64 | 61 | 53 | 58 | 65 | 54 | 59 | 52 | 62 |
| Civil engineering, total | 575 | 594 | 624 | 684 | 656 | 697 | 656 | 650 | 583 | 558 |
| Civil | 509 | 540 | 563 | 602 | 572 | 599 | 593 | 587 | 505 | 482 |
| Environmental health | 66 | 54 | 61 | 82 | 84 | 98 | 63 | 63 | 78 | 76 |
| Electrical engineering, total | 1,405 | 1,483 | 1,543 | 1,673 | 1,731 | 1,740 | 1,721 | 1,596 | 1,477 | 1,544 |
| Communications | 21 | 30 | 22 | 33 | 29 | 32 | 33 | 40 | 38 | 42 |
| Computer | 178 | 175 | 167 | 202 | 189 | 208 | 227 | 210 | 205 | 172 |
| Electrical/electronics | 1,206 | 1,278 | 1,354 | 1,438 | 1,513 | 1,500 | 1,461 | 1,346 | 1,234 | 1,330 |
| Industrial/manufacturing engineering[2] | 165 | 196 | 236 | 228 | 284 | 258 | 246 | 229 | 212 | 176 |
| Materials/metallurgical engineering, total | 489 | 485 | 535 | 539 | 588 | 572 | 581 | 565 | 469 | 451 |
| Ceramic sciences[3] | 58 | 42 | 42 | 39 | 39 | 41 | 39 | 24 | 33 | 22 |
| Materials science | 361 | 365 | 416 | 433 | 476 | 470 | 482 | 482 | 393 | 404 |
| Metallurgical | 70 | 78 | 77 | 67 | 73 | 61 | 60 | 59 | 43 | 25 |
| Mechanical engineering, total | 875 | 987 | 1,030 | 1,015 | 1,025 | 1,052 | 1,021 | 1,023 | 854 | 864 |
| Mechanical | 762 | 855 | 902 | 883 | 917 | 947 | 928 | 937 | 786 | 807 |
| Engineering mechanics | 113 | 132 | 128 | 132 | 108 | 105 | 93 | 86 | 68 | 57 |
| Other engineering, total | 807 | 734 | 765 | 728 | 764 | 901 | 849 | 846 | 854 | 796 |
| Agricultural | 83 | 84 | 86 | 89 | 73 | 104 | 79 | 74 | 59 | 60 |
| Bioengineering/biomedical | 149 | 147 | 171 | 173 | 189 | 220 | 210 | 207 | 245 | 252 |
| Engineering physics | 23 | 25 | 21 | 17 | 17 | 37 | 24 | 15 | 28 | 26 |
| Engineering science | 42 | 51 | 55 | 46 | 56 | 52 | 45 | 50 | 51 | 34 |
| Mining/mineral | 38 | 26 | 24 | 23 | 19 | 31 | 33 | 21 | 18 | 10 |
| Naval architecture/marine[4] | 5 | na | na | na | na | na | na | na | na | na |
| Nuclear | 107 | 120 | 108 | 85 | 105 | 113 | 102 | 96 | 76 | 98 |
| Ocean | 21 | 21 | 24 | 29 | 21 | 26 | 34 | 29 | 16 | 18 |
| Operations research | 76 | 56 | 56 | 47 | 48 | 74 | 74 | 62 | 67 | 51 |
| Systems | 48 | 37 | 57 | 51 | 47 | 47 | 49 | 68 | 42 | 34 |
| Engineering, general | 78 | 64 | 47 | 39 | 60 | 60 | 51 | 30 | 39 | 43 |
| Engineering, other | 137 | 103 | 116 | 129 | 129 | 137 | 148 | 194 | 213 | 170 |
| Sciences, total | 18,809 | 19,237 | 19,745 | 20,383 | 20,526 | 20,923 | 21,126 | 21,350 | 20,585 | 20,649 |
| Physical sciences, total | 3,626 | 3,781 | 3,699 | 3,977 | 3,841 | 3,837 | 3,768 | 3,823 | 3,578 | 3,411 |
| Astronomy, total | 125 | 134 | 145 | 144 | 173 | 192 | 198 | 207 | 159 | 187 |
| Astronomy | 50 | 55 | 76 | 66 | 89 | 84 | 71 | 91 | 59 | 80 |
| Astrophysics | 75 | 79 | 69 | 78 | 84 | 108 | 127 | 116 | 100 | 107 |
| Chemistry, total | 2,194 | 2,214 | 2,137 | 2,257 | 2,162 | 2,148 | 2,147 | 2,215 | 2,132 | 1,990 |
| Analytical | 304 | 304 | 286 | 334 | 317 | 346 | 350 | 383 | 333 | 326 |
| Inorganic | 260 | 268 | 237 | 262 | 258 | 249 | 279 | 287 | 279 | 221 |
| Medicinal/ pharmaceutical[5] | 83 | 69 | 99 | 102 | 96 | 96 | 105 | 114 | 131 | 107 |
| Nuclear | 14 | 7 | 8 | 10 | 5 | 5 | 8 | 6 | 10 | 9 |
| Organic | 538 | 512 | 518 | 544 | 483 | 506 | 566 | 597 | 562 | 524 |
| Physical | 364 | 398 | 336 | 334 | 338 | 300 | 334 | 279 | 310 | 271 |
| Polymer | 111 | 83 | 107 | 117 | 116 | 121 | 110 | 122 | 96 | 106 |
| Theoretical | 45 | 59 | 53 | 52 | 40 | 57 | 48 | 41 | 56 | 52 |
| Chemistry, general | 400 | 449 | 431 | 447 | 458 | 396 | 261 | 285 | 196 | 264 |
| Chemistry, other | 75 | 65 | 62 | 55 | 51 | 72 | 86 | 101 | 159 | 110 |

See explanatory information, if any, and SOURCE at end of table.

BEST COPY AVAILABLE

## Table 1. Science and engineering (S&E) doctorates awarded, by field of study and year of doctorate: 1991-2000



| Field of study | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|---|---|---|---|---|---|---|---|---|---|
| Physics, total | 1,286 | 1,403 | 1,399 | 1,548 | 1,479 | 1,484 | 1,401 | 1,377 | 1,270 | 1,205 |
| Acoustics | 13 | 18 | 27 | 20 | 18 | 19 | 19 | 18 | 16 | 10 |
| Chemical & atomic/ molecular[6] | 76 | 85 | 95 | 140 | 110 | 129 | 106 | 100 | 99 | 110 |
| Electron[4] | 1 | na | na | na | na | na | na | na | na | na |
| Elementary particle | 182 | 153 | 170 | 176 | 183 | 175 | 170 | 173 | 169 | 147 |
| Fluids | 14 | 17 | 19 | 12 | 18 | 21 | 24 | 26 | 23 | 10 |
| Nuclear | 66 | 86 | 82 | 90 | 91 | 87 | 106 | 92 | 76 | 74 |
| Optics | 85 | 94 | 96 | 104 | 98 | 129 | 123 | 104 | 97 | 117 |
| Plasma & high-temperature[7] | 58 | 65 | 62 | 79 | 46 | 48 | 39 | 55 | 49 | 38 |
| Polymer | 17 | 17 | 29 | 29 | 23 | 33 | 19 | 24 | 28 | 21 |
| Solid state & low-temperature[8] | 372 | 408 | 336 | 388 | 371 | 364 | 328 | 313 | 307 | 279 |
| Physics, general | 247 | 297 | 340 | 343 | 355 | 323 | 255 | 191 | 205 | 225 |
| Physics, other | 155 | 163 | 143 | 167 | 166 | 156 | 212 | 281 | 201 | 174 |
| Other physical sciences | 21 | 30 | 18 | 28 | 27 | 13 | 22 | 24 | 17 | 29 |
| Earth, atmospheric, and ocean sciences, total | 815 | 794 | 771 | 824 | 780 | 794 | 878 | 814 | 805 | 757 |
| Atmospheric sciences, total | 108 | 120 | 99 | 129 | 130 | 125 | 149 | 125 | 124 | 143 |
| Atmospheric dynamics | 21 | 23 | 23 | 27 | 16 | 21 | 25 | 24 | 16 | 17 |
| Atmospheric physics/ chemistry | 20 | 36 | 13 | 27 | 27 | 22 | 45 | 38 | 43 | 39 |
| Meteorology | 31 | 28 | 34 | 32 | 25 | 35 | 28 | 25 | 22 | 34 |
| Atmospheric science/ meteorology, general | 26 | 27 | 22 | 37 | 44 | 33 | 36 | 22 | 33 | 36 |
| Atmospheric science/ meteorology, other | 10 | 6 | 7 | 6 | 18 | 14 | 15 | 16 | 10 | 17 |
| Geosciences, total | 560 | 503 | 479 | 509 | 454 | 452 | 489 | 504 | 452 | 385 |
| Applied geology[4] | 1 | na | na | na | na | na | na | na | na | na |
| Geology | 192 | 166 | 197 | 194 | 186 | 162 | 165 | 171 | 157 | 124 |
| Geochemistry | 64 | 62 | 50 | 59 | 42 | 49 | 49 | 58 | 55 | 48 |
| Geomorphology/glacial geology | 18 | 12 | 16 | 13 | 11 | 11 | 26 | 20 | 18 | 14 |
| Geophysics/seismology | 117 | 108 | 101 | 106 | 93 | 101 | 108 | 106 | 100 | 69 |
| Hydrology/water resources | 16 | 29 | 25 | 30 | 24 | 31 | 43 | 35 | 32 | 43 |
| Mineralogy/petrology | 36 | 29 | 9 | 21 | 19 | 23 | 19 | 14 | 14 | 5 |
| Paleontology | 24 | 25 | 21 | 17 | 20 | 14 | 23 | 23 | 15 | 31 |
| Stratigraphy/ sedimentation | 29 | 23 | 28 | 27 | 16 | 12 | 23 | 24 | 17 | 13 |
| Geological & related sciences, general | 30 | 18 | 15 | 18 | 21 | 27 | 16 | 13 | 9 | 20 |
| Geological & related sciences, other | 33 | 31 | 17 | 24 | 22 | 22 | 17 | 40 | 35 | 18 |
| Oceanography, total | 112 | 114 | 125 | 125 | 115 | 134 | 144 | 112 | 130 | 135 |
| Marine sciences | 27 | 32 | 27 | 34 | 32 | 27 | 30 | 18 | 30 | 35 |
| Oceanography | 85 | 82 | 98 | 91 | 83 | 107 | 114 | 94 | 100 | 100 |
| Other environmental sciences | 35 | 57 | 68 | 61 | 81 | 83 | 96 | 73 | 99 | 94 |

See explanatory information, if any, and SOURCE at end of table.

## Table 1. Science and engineering (S&E) doctorates awarded, by field of study and year of doctorate: 1991-2000



| Field of study | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|---|---|---|---|---|---|---|---|---|---|
| Mathematical/computer sciences, total | 1,839 | 1,927 | 2,026 | 2,021 | 2,187 | 2,043 | 2,033 | 2,102 | 1,936 | 1,909 |
| Mathematics, total | 1,039 | 1,058 | 1,146 | 1,118 | 1,190 | 1,122 | 1,123 | 1,177 | 1,083 | 1,048 |
| Algebra | 72 | 69 | 84 | 78 | 82 | 78 | 78 | 75 | 84 | 82 |
| Analysis/functional analysis | 132 | 105 | 105 | 107 | 99 | 100 | 103 | 130 | 86 | 81 |
| Applied mathematics | 193 | 213 | 188 | 206 | 211 | 230 | 242 | 265 | 252 | 238 |
| Computing theory | 19 | 12 | 18 | 16 | 14 | 18 | 14 | 18 | 14 | 17 |
| Geometry | 66 | 45 | 44 | 35 | 45 | 72 | 70 | 54 | 65 | 59 |
| Logic | 23 | 28 | 19 | 29 | 35 | 16 | 23 | 16 | 23 | 19 |
| Mathematical statistics[9] | 206 | 217 | 228 | 205 | 205 | 178 | 181 | 204 | 174 | 194 |
| Number theory | 30 | 25 | 42 | 37 | 35 | 42 | 46 | 46 | 50 | 40 |
| Operations research | 16 | 22 | 37 | 26 | 36 | 21 | 20 | 17 | 21 | 19 |
| Topology | 57 | 58 | 54 | 38 | 51 | 55 | 62 | 65 | 65 | 50 |
| Mathematics, general | 180 | 209 | 276 | 269 | 305 | 233 | 153 | 163 | 116 | 150 |
| Mathematics, other | 45 | 55 | 51 | 72 | 72 | 79 | 131 | 124 | 133 | 99 |
| Computer sciences, total | 800 | 869 | 880 | 903 | 997 | 921 | 910 | 925 | 853 | 861 |
| Computer science | 720 | 791 | 825 | 833 | 913 | 837 | 829 | 819 | 738 | 722 |
| Information science/ systems | 80 | 78 | 55 | 70 | 84 | 84 | 81 | 106 | 115 | 139 |
| Biological/agricultural sciences, total | 5,723 | 5,862 | 6,060 | 6,281 | 6,411 | 6,760 | 6,768 | 6,880 | 6,546 | 6,798 |
| Biological sciences, total | 4,650 | 4,799 | 5,092 | 5,203 | 5,375 | 5,723 | 5,786 | 5,843 | 5,581 | 5,855 |
| Bacteriology | 11 | 13 | 14 | 18 | 13 | 16 | 13 | 13 | 13 | 15 |
| Biochemistry | 765 | 715 | 846 | 804 | 824 | 794 | 831 | 798 | 760 | 777 |
| Biomedical sciences[10] | na | na | na | na | 93 | 140 | 158 | 184 | 176 | 155 |
| Biophysics | 100 | 125 | 103 | 123 | 155 | 142 | 147 | 166 | 173 | 164 |
| Biotechnology research[11] | na | na | 8 | 14 | 4 | 6 | 11 | 12 | 19 | 14 |
| Plant genetics | 23 | 33 | 41 | 30 | 35 | 41 | 30 | 40 | 31 | 35 |
| Plant pathology | 50 | 32 | 41 | 40 | 32 | 38 | 33 | 18 | 36 | 25 |
| Plant physiology | 65 | 68 | 48 | 70 | 55 | 73 | 47 | 61 | 54 | 39 |
| Botany, other | 105 | 107 | 105 | 117 | 102 | 105 | 91 | 113 | 67 | 92 |
| Anatomy | 77 | 75 | 76 | 66 | 64 | 47 | 50 | 35 | 33 | 40 |
| Biometrics/biostatistics | 59 | 63 | 74 | 72 | 67 | 81 | 84 | 75 | 76 | 92 |
| Cell biology | 149 | 188 | 231 | 237 | 236 | 233 | 251 | 299 | 284 | 337 |
| Developmental biology/ embryology[12] | 37 | 48 | 57 | 62 | 64 | 96 | 115 | 127 | 108 | 111 |
| Ecology | 189 | 180 | 177 | 201 | 203 | 245 | 255 | 293 | 272 | 297 |
| Endocrinology | 33 | 27 | 16 | 26 | 20 | 24 | 17 | 30 | 19 | 20 |
| Entomology | 138 | 139 | 114 | 123 | 121 | 136 | 124 | 138 | 114 | 137 |
| Biological immunology[13] | 177 | 181 | 169 | 161 | 190 | 238 | 214 | 245 | 223 | 238 |
| Microbiology | 372 | 377 | 433 | 423 | 426 | 444 | 410 | 383 | 382 | 383 |
| Molecular biology | 481 | 527 | 582 | 598 | 617 | 651 | 772 | 736 | 715 | 705 |
| Neuroscience | 238 | 238 | 276 | 284 | 308 | 404 | 437 | 413 | 431 | 495 |
| Nutritional sciences | 106 | 132 | 134 | 147 | 136 | 142 | 124 | 139 | 102 | 150 |
| Parasitology | 20 | 17 | 17 | 22 | 14 | 22 | 17 | 15 | 13 | 19 |
| Toxicology | 86 | 105 | 100 | 120 | 126 | 138 | 180 | 155 | 114 | 123 |
| Human/animal genetics | 160 | 142 | 172 | 203 | 202 | 212 | 217 | 197 | 216 | 225 |
| Human/animal pathology | 122 | 114 | 130 | 128 | 109 | 135 | 106 | 90 | 120 | 105 |
| Human/animal pharmacology | 266 | 279 | 274 | 259 | 278 | 316 | 300 | 255 | 254 | 267 |
| Human/animal physiology | 272 | 266 | 271 | 289 | 262 | 275 | 227 | 258 | 243 | 244 |
| Zoology, other | 125 | 134 | 114 | 117 | 145 | 100 | 97 | 111 | 126 | 133 |
| Biological sciences, general | 278 | 315 | 305 | 288 | 348 | 291 | 209 | 216 | 182 | 200 |
| Biological sciences, other | 146 | 159 | 164 | 161 | 126 | 138 | 219 | 228 | 225 | 218 |

See explanatory information, if any, and SOURCE at end of table.

## Table 1. Science and engineering (S&E) doctorates awarded, by field of study and year of doctorate: 1991-2000



| Field of study | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|---|---|---|---|---|---|---|---|---|---|
| Agricultural sciences, total | 1,073 | 1,063 | 968 | 1,078 | 1,036 | 1,037 | 982 | 1,037 | 965 | 943 |
| Agronomy & crop science[14] | 117 | 123 | 104 | 143 | 114 | 110 | 77 | 97 | 106 | 70 |
| Animal breeding/genetics | 18 | 23 | 18 | 17 | 19 | 12 | 24 | 18 | 21 | 22 |
| Animal nutrition | 57 | 41 | 52 | 58 | 50 | 54 | 55 | 45 | 46 | 46 |
| Dairy science | 19 | 14 | 11 | 11 | 14 | 9 | 14 | 10 | 12 | 9 |
| Poultry science | 13 | 22 | 16 | 21 | 11 | 12 | 9 | 11 | 8 | 9 |
| Animal sciences, other | 92 | 97 | 74 | 86 | 85 | 90 | 62 | 60 | 71 | 73 |
| Fisheries science & management[15] | 39 | 26 | 38 | 48 | 49 | 46 | 45 | 30 | 38 | 43 |
| Wildlife/range management[16] | 59 | 55 | 54 | 52 | 50 | 64 | 50 | 56 | 44 | 56 |
| Food engineering[17] | 12 | 14 | 9 | 16 | 7 | 7 | 11 | 13 | 7 | 10 |
| Food sciences, other[17] | 137 | 151 | 141 | 153 | 135 | 142 | 175 | 153 | 137 | 142 |
| Forest biology[18] | 17 | 29 | 18 | 20 | 24 | 19 | 22 | 20 | 14 | 22 |
| Forest engineering[18] | 2 | 2 | 3 | na | 4 | 0 | 13 | 2 | 1 | 3 |
| Forest management[18] | 22 | 16 | 17 | 17 | 20 | 22 | 21 | 27 | 17 | 13 |
| Wood science & pulp/paper technology[18] | 16 | 21 | 20 | 26 | 26 | 18 | 25 | 25 | 21 | 11 |
| Conservation/renewable natural resources[18] | 19 | 9 | 13 | 21 | 24 | 13 | 17 | 25 | 25 | 19 |
| Forestry & related sciences, other[18] | 45 | 62 | 55 | 59 | 71 | 56 | 50 | 69 | 49 | 54 |
| Horticulture science | 78 | 65 | 62 | 65 | 67 | 73 | 44 | 60 | 66 | 55 |
| Plant breeding/genetics | 69 | 82 | 68 | 81 | 72 | 63 | 67 | 69 | 44 | 68 |
| Plant pathology | 90 | 63 | 58 | 55 | 52 | 90 | 65 | 66 | 66 | 63 |
| Plant protection/pest management[19] | 2 | na | na | na | na | na | na | na | na | na |
| Plant sciences, other | 17 | 29 | 28 | 24 | 30 | 21 | 20 | 37 | 38 | 29 |
| Soil chemistry/ microbiology[20] | 24 | 24 | 26 | 21 | 27 | 29 | 32 | 27 | 29 | 26 |
| Soil sciences, other[20] | 78 | 63 | 59 | 69 | 72 | 78 | 56 | 74 | 67 | 64 |
| Agricultural sciences, general | 3 | 9 | 10 | 4 | 6 | 5 | 10 | 8 | 8 | 10 |
| Agricultural sciences, other | 28 | 23 | 14 | 11 | 7 | 4 | 18 | 35 | 30 | 26 |

See explanatory information, if any, and SOURCE at end of table.

## Table 1. Science and engineering (S&E) doctorates awarded, by field of study and year of doctorate: 1991-2000



| Field of study | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|---|---|---|---|---|---|---|---|---|---|
| Psychology, total | 3,250 | 3,263 | 3,420 | 3,379 | 3,429 | 3,491 | 3,58[illegible] | ,676 | 3,659 | 3,623 |
| Clinical | 1,305 | 1,309 | 1,373 | 1,285 | 1,291 | 1,325 | 1,[illegible]87 | ,344 | 1,442 | 1,357 |
| Cognitive psychology & psycholinguistics[21] | 94 | 101 | 104 | 129 | 104 | 128 | 166 | 113 | 143 | 141 |
| Comparative | 7 | 2 | 5 | 8 | 4 | 3 | 6 | 6 | 11 | 7 |
| Counseling | 497 | 507 | 488 | 497 | 470 | 464 | 487 | 448 | 460 | 475 |
| Developmental & child[22] | 155 | 170 | 202 | 179 | 152 | 188 | 215 | 267 | 193 | 203 |
| Educational | 110 | 91 | 91 | 69 | 74 | 92 | [illegible] | 61 | 66 | 97 |
| Experimental | 142 | 154 | 143 | 139 | 151 | 128 | 145 | 149 | 137 | 133 |
| Family & marriage counseling[10] | na | na | na | na | 57 | 52 | 64 | 51 | 55 | 54 |
| Human/individual & family development[23] | na | na | na | 129 | 150 | 151 | 126 | 118 | 133 | 148 |
| Industrial/organizational | 142 | 138 | 159 | 137 | 155 | 162 | 187 | 189 | 158 | 188 |
| Physiological/ psychobiology[24] | 45 | 55 | 85 | 93 | 92 | 80 | 77 | 92 | 86 | 89 |
| Quantitative | 7 | 10 | 16 | 17 | 13 | 19 | 17 | 15 | 14 | 8 |
| Personality | 13 | 17 | 22 | 19 | 16 | 24 | 26 | 25 | 16 | 23 |
| Psychometrics | 9 | 5 | 9 | 5 | 10 | 11 | 11 | 9 | 15 | 13 |
| School | 82 | 88 | 95 | 84 | 91 | 82 | 84 | 106 | 121 | 98 |
| Social | 147 | 139 | 125 | 153 | 155 | 170 | 181 | 186 | 176 | 209 |
| Psychology, general | 324 | 295 | 306 | 280 | 306 | 279 | 319 | 301 | 229 | 239 |
| Psychology, other | 171 | 182 | 197 | 156 | 138 | 133 | 129 | 196 | 204 | 141 |
| Social sciences, total | 3,556 | 3,610 | 3,769 | 3,901 | 3,878 | 3,998 | 4,111 | 4,055 | 4,061 | 4,151 |
| Economics, total | 1,053 | 1,051 | 1,067 | 1,101 | 1,152 | 1,177 | 1,163 | 1,155 | 1,075 | 1,085 |
| Agricultural economics | 168 | 141 | 137 | 162 | 173 | 169 | 133 | 155 | 149 | 137 |
| Econometrics | 24 | 25 | 24 | 26 | 27 | 29 | 31 | 25 | 15 | 15 |
| Economics | 861 | 885 | 906 | 913 | 952 | 979 | 999 | 975 | 911 | 933 |
| Political science, total | 740 | 804 | 824 | 930 | 894 | 927 | 974 | 961 | 1,017 | 986 |
| International relations & affairs[25] | 88 | 76 | 102 | 112 | 73 | 99 | [illegible] | 97 | 119 | 77 |
| Political science/ government | 434 | 513 | 507 | 589 | 600 | 621 | 665 | 663 | 655 | 670 |
| Public administration | 107 | 108 | 117 | 135 | 128 | 103 | 95 | 104 | 119 | 102 |
| Public policy analysis[26] | 111 | 107 | 98 | 94 | 93 | 104 | 126 | ,97 | 124 | 137 |
| Sociology, total | 493 | 512 | 535 | 548 | 555 | 527 | 601 | 579 | 571 | 634 |
| Demography/population studies[27] | 28 | 17 | 22 | 23 | 15 | 11 | 24 | 30 | 28 | 19 |
| Sociology | 465 | 495 | 513 | 525 | 540 | 516 | 577 | 549 | 543 | 615 |
| Other social sciences, total | 1,270 | 1,243 | 1,343 | 1,322 | 1,277 | 1,367 | 1,373 | 1,360 | 1,398 | 1,446 |
| American studies | 92 | 81 | 101 | 88 | 94 | 115 | 84 | 100 | 98 | 113 |
| Anthropology | 341 | 320 | 342 | 384 | 375 | 396 | 434 | 425 | 462 | 446 |
| Archaeology | 33 | 33 | 38 | 34 | 35 | 21 | 35 | 34 | 26 | 36 |
| Area studies | 24 | 33 | 36 | 34 | 27 | 28 | 10 | 14 | 11 | 14 |
| Criminology | 35 | 37 | 39 | 41 | 44 | 60 | 49 | 55 | 51 | 66 |
| Geography | 108 | 111 | 137 | 146 | 150 | 165 | 149 | 154 | 144 | 197 |
| History/philosophy of science & technology[28] | 27 | 28 | 37 | 27 | 41 | 37 | 36 | 43 | 49 | 42 |
| Linguistics | 227 | 266 | 214 | 221 | 201 | 230 | 244 | 220 | 250 | 229 |
| Statistics | 31 | 29 | 48 | 46 | 48 | 48 | 56 | 61 | 72 | 60 |
| Urban affairs & studies[29] | 90 | 86 | 123 | 132 | 103 | 106 | 93 | 77 | 57 | 78 |
| Social sciences, general | 36 | 33 | 32 | 21 | 35 | 26 | 26 | 30 | 25 | 39 |
| Social sciences, other | 226 | 186 | 196 | 148 | 124 | 135 | 157 | 147 | 153 | 126 |

See explanatory information, if any, and SOURCE at end of table.

## Table 1. Science and engineering (S&E) doctorates awarded, by field of study and year of doctorate: 1991-2000



| Field of study | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|---|---|---|---|---|---|---|---|---|---|
| Non-S&E, total[30] | 13,511 | 14,215 | 14,357 | 14,829 | 15,208 | 15,185 | 15,305 | 15,357 | 15,147 | 15,389 |
| Health | 1,041 | 1,112 | 1,197 | 1,296 | 1,330 | 1,324 | 1,422 | 1,501 | 1,404 | 1,589 |
| Humanities[31] | 3,720 | 4,036 | 4,091 | 4,374 | 4,690 | 4,713 | 5,035 | 5,112 | 5,028 | 5,214 |
| Education | 6,454 | 6,677 | 6,689 | 6,708 | 6,649 | 6,772 | 6,572 | 6,568 | 6,545 | 6,420 |
| Professional/other | 2,296 | 2,390 | 2,380 | 2,451 | 2,539 | 2,376 | 2,276 | 2,176 | 2,170 | 2,166 |
| Grand total, all fields | 37,534 | 38,890 | 39,800 | 41,034 | 41,742 | 42,413 | 42,545 | 42,634 | 41,060 | 41,368 |

1 In 1993 this subfield was changed from "Polymer engineering" to "Polymer and plastics engineering."

2 In 1993 this subfield was changed from "Industrial engineering" to "Industrial and manufacturing engineering."

3 In 1993 this subfield was changed from "Ceramic engineering" to "Ceramic sciences engineering."

4 These subfields were deleted in 1991: "Naval architecture/marine engineering," "Electron physics," and "Applied geology."

5 In 1993 this subfield was changed from "Pharmaceutical chemistry" to "Medicinal and pharmaceutical chemistry."

6 In 1993 this subfield was changed from "Atomic/molecular physics" to "Chemical and atomic/molecular physics."

7 In 1993 this subfield was changed from "Plasma physics" to "Plasma and high-temperature physics."

8 In 1993 this subfield was changed from "Solid state physics" to "Solid state and low-temperature physics."

9 In 1993 this subfield was changed from "Math probability and statistics" to "Mathematical statistics."

10 These subfields were introduced in 1995: "Biomedical sciences" and "Family and marriage counseling."

11 "Biotechnology research" was introduced in 1993.

12 In 1990 this subfield was changed from "Embryology" to "Developmental biology/embryology."

13 In 1993 this subfield was changed from "Immunology" to "Biological immunology."

14 In 1993 this subfield was changed from "Agronomy" to "Agronomy and crop science."

15 In 1993 this subfield was changed from "Fisheries science" to "Fisheries science and management."

16 In 1988 this subfield was changed from "Wildlife management" to "Wildlife/range management."

17 In 1990 "Food sciences" was separated into "Food engineering" and "Food sciences, other."

18 In 1988 "Forestry science" was separated into "Forest biology," "Forest engineering," "Forest management," "Wood science," "Renewable natural resources," and "Forestry and related sciences, other." In 1993 "Pulp and paper technology" was added to "Wood science," and "Conservation" was added to "Renewable natural resources." "Forest engineering" was deleted from the survey in 1994 and reintroduced in 1995.

19 "Plant protection/pest management" was deleted in 1991.

20 In 1988 "Soil sciences" was separated into "Soil chemistry/microbiology" and "Soil sciences, other."

21 In 1993 this subfield was changed from "Cognitive psychology" to "Cognitive psychology and psycholinguistics."

22 In 1993 this subfield was changed from "Developmental psychology" to "Developmental and child psychology."

23 "Human/individual & family development" was introduced in 1994.

24 In 1993 this subfield was changed from "Physiological psychology" to "Physiological psychology/psychobiology."

25 In 1993 this subfield was changed from "International relations" to "International relations and affairs."

26 In 1993 this subfield was changed from "Public policy studies" to "Public policy analysis."

27 In 1993 this subfield was changed from "Demography" to "Demography and population studies."

28 In 1993 this subfield was changed from "History of science" to "History and philosophy of science and technology."

29 In 1993 this subfield was changed from "Urban studies" to "Urban affairs and studies."

30 Non-S&E doctorates include those whose field of specialization is unknown.

31 Categories differ from those published by other Federal sponsors and the Summary Reports in that linguistics, history of science, American studies, and archaeology are included not in humanities but in social science.

**KEY:** na = Not available (i.e., the subfield was not identified separately in the questionnaire for that year)

**SOURCE:** National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates

## Table 2. Science and engineering (S&E) doctorates awarded to women, by field of study and year of doctorate: 1991-2000



| Field of study | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | Percent women | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | 1991 | 2000 |
| Science and engineering, total | 6,932 | 7,080 | 7,652 | 7,921 | 8,286 | 8,646 | 8,941 | 9,342 | 9,071 | 9,396 | 28.9 | 36.2 |
| Engineering, total | 467 | 506 | 522 | 635 | 696 | 776 | 751 | 773 | 791 | 839 | 9.0 | 15.7 |
| Aeronautical/astronautical engineering | 7 | 8 | 8 | 11 | 14 | 24 | 16 | 15 | 17 | 21 | 3.4 | 9.8 |
| Chemical engineering, total | 83 | 113 | 94 | 113 | 109 | 143 | 122 | 140 | 123 | 152 | 12.0 | 20.9 |
| Chemical | 75 | 101 | 83 | 101 | 96 | 126 | 106 | 119 | 101 | 131 | 12.1 | 21.1 |
| Petroleum | 1 | 3 | 5 | 3 | 1 | 3 | 3 | 6 | 5 | 6 | 3.6 | 13.6 |
| Polymer/plastics[1] | 7 | 9 | 6 | 9 | 12 | 14 | 13 | 15 | 17 | 15 | 16.7 | 24.2 |
| Civil engineering, total | 41 | 50 | 54 | 80 | 76 | 79 | 80 | 100 | 89 | 88 | 7.1 | 15.8 |
| Civil | 31 | 36 | 45 | 56 | 55 | 64 | 70 | 83 | 76 | 78 | 6.1 | 16.2 |
| Environmental health | 10 | 14 | 9 | 24 | 21 | 15 | 10 | 17 | 13 | 10 | 15.2 | 13.2 |
| Electrical engineering, total | 79 | 115 | 125 | 147 | 173 | 169 | 150 | 156 | 156 | 196 | 5.6 | 12.7 |
| Communications | 2 | 1 | 2 | 5 | 5 | 2 | 3 | 6 | 6 | 7 | 9.5 | 16.7 |
| Computer | 9 | 13 | 15 | 25 | 18 | 23 | 21 | 22 | 33 | 32 | 5.1 | 18.6 |
| Electrical/electronics | 68 | 101 | 108 | 117 | 150 | 144 | 126 | 128 | 117 | 157 | 5.6 | 11.8 |
| Industrial/manufacturing engineering[2] | 17 | 25 | 27 | 33 | 50 | 51 | 40 | 40 | 43 | 35 | 10.3 | 19.9 |
| Materials/metallurgical engineering, total | 77 | 61 | 78 | 83 | 95 | 83 | 106 | 84 | 88 | 83 | 15.7 | 18.4 |
| Ceramic sciences[3] | 10 | 9 | 6 | 9 | 5 | 3 | 8 | 2 | 9 | 8 | 17.2 | 36.4 |
| Materials science | 59 | 50 | 67 | 69 | 84 | 71 | 96 | 75 | 75 | 73 | 16.3 | 18.1 |
| Metallurgical | 8 | 2 | 5 | 5 | 6 | 9 | 2 | 7 | 4 | 2 | 11.4 | 8.0 |
| Mechanical engineering, total | 57 | 45 | 57 | 69 | 64 | 78 | 88 | 93 | 96 | 96 | 6.5 | 11.1 |
| Mechanical | 50 | 33 | 46 | 60 | 56 | 68 | 82 | 80 | 85 | 89 | 6.6 | 11.0 |
| Engineering mechanics | 7 | 12 | 11 | 9 | 8 | 10 | 6 | 13 | 11 | 7 | 6.2 | 12.3 |
| Other engineering, total | 106 | 89 | 79 | 99 | 115 | 149 | 149 | 145 | 179 | 168 | 13.1 | 21.1 |
| Agricultural | 8 | 6 | 6 | 10 | 7 | 17 | 12 | 5 | 12 | 7 | 9.6 | 11.7 |
| Bioengineering/biomedical | 27 | 33 | 31 | 45 | 48 | 49 | 54 | 50 | 63 | 71 | 18.1 | 28.2 |
| Engineering physics | 2 | 2 | 3 | 3 | 1 | 3 | 4 | 3 | 4 | 1 | 8.7 | 3.8 |
| Engineering science | 3 | 6 | 3 | 3 | 6 | 4 | 7 | 8 | 4 | 6 | 7.1 | 17.6 |
| Mining/mineral | 6 | 3 | 1 | 3 | 0 | 3 | 3 | 4 | 2 | 0 | 15.8 | .0 |
| Naval architecture/marine[4] | 0 | na | na | na | na | na | na | na | na | na | .0 | - |
| Nuclear | 6 | 9 | 5 | 8 | 9 | 9 | 8 | 10 | 9 | 9 | 5.6 | 9.2 |
| Ocean | 1 | 0 | 1 | 2 | 3 | 3 | 5 | 0 | 1 | 3 | 4.8 | 16.7 |
| Operations research | 22 | 11 | 10 | 7 | 8 | 16 | 15 | 15 | 16 | 11 | 28.9 | 21.6 |
| Systems | 4 | 3 | 4 | 5 | 5 | 9 | 10 | 9 | 7 | 6 | 8.3 | 17.6 |
| Engineering, general | 7 | 3 | 3 | 4 | 9 | 11 | 3 | 3 | 4 | 10 | 9.0 | 23.3 |
| Engineering, other | 20 | 13 | 12 | 9 | 19 | 25 | 28 | 38 | 57 | 44 | 14.6 | 25.9 |
| Sciences, total | 6,465 | 6,574 | 7,130 | 7,286 | 7,590 | 7,870 | 8,190 | 8,569 | 8,280 | 8,557 | 34.4 | 41.4 |
| Physical sciences, total | 679 | 770 | 780 | 828 | 878 | 842 | 852 | 926 | 830 | 836 | 18.7 | 24.5 |
| Astronomy, total | 14 | 19 | 25 | 25 | 30 | 41 | 37 | 45 | 32 | 41 | 11.2 | 21.9 |
| Astronomy | 7 | 11 | 12 | 9 | 18 | 21 | 18 | 22 | 17 | 25 | 14.0 | 31.3 |
| Astrophysics | 7 | 8 | 13 | 16 | 12 | 20 | 19 | 23 | 15 | 16 | 9.3 | 15.0 |
| Chemistry, total | 517 | 579 | 582 | 625 | 661 | 605 | 613 | 695 | 632 | 624 | 23.6 | 31.4 |
| Analytical | 83 | 95 | 91 | 102 | 109 | 111 | 106 | 146 | 108 | 121 | 27.3 | 37.1 |
| Inorganic | 73 | 69 | 59 | 87 | 92 | 68 | 81 | 84 | 90 | 64 | 28.1 | 29.0 |
| Medicinal/ pharmaceutical[5] | 27 | 27 | 38 | 26 | 32 | 32 | 43 | 46 | 50 | 51 | 32.5 | 47.7 |
| Nuclear | 4 | 1 | 0 | 0 | 3 | 0 | 0 | 1 | 1 | 3 | 28.6 | 33.3 |
| Organic | 108 | 119 | 131 | 128 | 134 | 118 | 145 | 160 | 163 | 140 | 20.1 | 26.7 |
| Physical | 86 | 109 | 88 | 93 | 93 | 85 | 91 | 77 | 75 | 76 | 23.6 | 28.0 |
| Polymer | 24 | 12 | 22 | 23 | 28 | 30 | 25 | 40 | 31 | 31 | 21.6 | 29.2 |
| Theoretical | 7 | 16 | 16 | 17 | 10 | 14 | 11 | 10 | 9 | 12 | 15.6 | 23.1 |
| Chemistry, general | 76 | 107 | 112 | 126 | 135 | 119 | 76 | 88 | 52 | 81 | 19.0 | 30.7 |
| Chemistry, other | 29 | 24 | 25 | 23 | 25 | 28 | 35 | 43 | 53 | 45 | 38.7 | 40.9 |

See explanatory information, if any, and SOURCE at end of table.

BEST COPY AVAILABLE

## Table 2. Science and engineering (S&E) doctorates awarded to women, by field of study and year of doctorate: 1991-2000



| Field of study | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | Percent women | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | 1991 | 2000 |
| Physics, total | 142 | 167 | 169 | 175 | 182 | 193 | 193 | 177 | 160 | 163 | 11.0 | 13.5 |
| Acoustics | 2 | 0 | 1 | 2 | 3 | 2 | 4 | 6 | 1 | 1 | 15.4 | 10.0 |
| Chemical & atomic/ molecular[6] | 4 | 6 | 14 | 17 | 15 | 10 | 11 | 13 | 14 | 21 | 5.3 | 19.1 |
| Electron[4] | 0 | na | na | na | na | na | na | na | na | na | .0 | - |
| Elementary particle | 20 | 12 | 18 | 16 | 7 | 19 | 21 | 11 | 17 | 15 | 11.0 | 10.2 |
| Fluids | 0 | 1 | 2 | 1 | 0 | 4 | 0 | 0 | 2 | 0 | .0 | .0 |
| Nuclear | 7 | 12 | 8 | 9 | 12 | 9 | 11 | 11 | 9 | 9 | 10.6 | 12.2 |
| Optics | 13 | 9 | 14 | 14 | 13 | 20 | 16 | 18 | 12 | 16 | 15.3 | 13.7 |
| Plasma & high-temperature[7] | 2 | 4 | 4 | 8 | 5 | 2 | 2 | 2 | 2 | 0 | 3.4 | .0 |
| Polymer | 3 | 1 | 5 | 4 | 3 | 12 | 7 | 4 | 7 | 6 | 17.6 | 28.6 |
| Solid state & low-temperature[8] | 42 | 53 | 42 | 53 | 57 | 54 | 51 | 37 | 42 | 42 | 11.3 | 15.1 |
| Physics, general | 31 | 42 | 46 | 30 | 41 | 39 | 36 | 29 | 23 | 31 | 12.6 | 13.8 |
| Physics, other | 18 | 27 | 15 | 21 | 26 | 22 | 34 | 46 | 31 | 22 | 11.6 | 12.6 |
| Other physical sciences | 6 | 5 | 4 | 3 | 5 | 3 | 9 | 9 | 6 | 8 | 28.6 | 27.6 |
| Earth, atmospheric, and ocean sciences, total | 179 | 188 | 160 | 183 | 170 | 172 | 210 | 219 | 209 | 230 | 22.0 | 30.4 |
| Atmospheric sciences, total | 16 | 27 | 18 | 26 | 23 | 22 | 25 | 30 | 22 | 33 | 14.8 | 23.1 |
| Atmospheric dynamics | 3 | 4 | 5 | 9 | 3 | 4 | 5 | 8 | 4 | 3 | 14.3 | 17.6 |
| Atmospheric physics/ chemistry | 2 | 5 | 2 | 5 | 8 | 7 | 10 | 7 | 11 | 12 | 10.0 | 30.8 |
| Meteorology | 7 | 10 | 3 | 8 | 3 | 2 | 3 | 5 | 1 | 6 | 22.6 | 17.6 |
| Atmospheric science/ meteorology, general | 3 | 7 | 7 | 4 | 7 | 5 | 5 | 8 | 3 | 7 | 11.5 | 19.4 |
| Atmospheric science/ meteorology, other | 1 | 1 | 1 | 0 | 2 | 4 | 2 | 2 | 3 | 5 | 10.0 | 29.4 |
| Geosciences, total | 124 | 115 | 89 | 95 | 91 | 88 | 119 | 127 | 112 | 109 | 22.1 | 28.3 |
| Applied geology[4] | 0 | na | na | na | na | na | na | na | na | na | .0 | - |
| Geology | 34 | 35 | 35 | 32 | 38 | 36 | 39 | 40 | 41 | 29 | 17.7 | 23.4 |
| Geochemistry | 19 | 16 | 13 | 10 | 10 | 10 | 15 | 22 | 21 | 13 | 29.7 | 27.1 |
| Geomorphology/glacial geology | 2 | 5 | 3 | 2 | 4 | 1 | 4 | 8 | 9 | 4 | 11.1 | 28.6 |
| Geophysics/seismology | 20 | 23 | 14 | 24 | 19 | 14 | 19 | 21 | 15 | 16 | 17.1 | 23.2 |
| Hydrology/water resources | 2 | 7 | 9 | 3 | 4 | 5 | 8 | 8 | 5 | 16 | 12.5 | 37.2 |
| Mineralogy/petrology | 15 | 6 | 1 | 6 | 4 | 11 | 6 | 5 | 3 | 1 | 41.7 | 20.0 |
| Paleontology | 7 | 2 | 5 | 2 | 3 | 4 | 11 | 7 | 4 | 14 | 29.2 | 45.2 |
| Stratigraphy/ sedimentation | 8 | 10 | 5 | 4 | 1 | 3 | 7 | 4 | 3 | 4 | 27.6 | 30.8 |
| Geological & related sciences, general | 9 | 4 | 2 | 1 | 4 | 2 | 4 | 5 | 1 | 5 | 30.0 | 25.0 |
| Geological & related sciences, other | 8 | 7 | 2 | 11 | 4 | 2 | 6 | 7 | 10 | 7 | 24.2 | 38.9 |
| Oceanography, total | 26 | 29 | 35 | 38 | 28 | 39 | 38 | 32 | 45 | 46 | 23.2 | 34.1 |
| Marine sciences | 2 | 11 | 8 | 11 | 8 | 5 | 8 | 3 | 9 | 17 | 7.4 | 48.6 |
| Oceanography | 24 | 18 | 27 | 27 | 20 | 34 | 30 | 29 | 36 | 29 | 28.2 | 29.0 |
| Other environmental sciences | 13 | 17 | 18 | 24 | 28 | 23 | 28 | 30 | 30 | 42 | 37.1 | 44.7 |

See explanatory information, if any, and SOURCE at end of table.

## Table 2. Science and engineering (S&E) doctorates awarded to women, by field of study and year of doctorate: 1991-2000



| Field of study | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | Percent women | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | 1991 | 2000 |
| Mathematical/computer sciences, total | 316 | 325 | 402 | 373 | 451 | 370 | 413 | 456 | 433 | 400 | 17.2 | 21.0 |
| Mathematics, total | 199 | 205 | 264 | 236 | 265 | 231 | 263 | 297 | 277 | 258 | 19.2 | 24.6 |
| Algebra | 16 | 13 | 28 | 24 | 24 | 18 | 20 | 18 | 25 | 21 | 22.2 | 25.6 |
| Analysis/functional analysis | 21 | 18 | 23 | 16 | 18 | 15 | 13 | 25 | 19 | 15 | 15.9 | 18.5 |
| Applied mathematics | 27 | 44 | 43 | 39 | 47 | 52 | 55 | 61 | 59 | 59 | 14.0 | 24.8 |
| Computing theory | 3 | 0 | 3 | 2 | 2 | 2 | 1 | 3 | 3 | 2 | 15.8 | 11.8 |
| Geometry | 5 | 6 | 7 | 4 | 8 | 14 | 13 | 15 | 16 | 8 | 7.6 | 13.6 |
| Logic | 1 | 2 | 4 | 6 | 7 | 1 | 5 | 5 | 5 | 2 | 4.3 | 10.5 |
| Mathematical statistics[9] | 56 | 46 | 57 | 50 | 54 | 47 | 46 | 62 | 46 | 71 | 27.2 | 36.6 |
| Number theory | 8 | 4 | 4 | 5 | 9 | 7 | 11 | 7 | 12 | 5 | 26.7 | 12.5 |
| Operations research | 4 | 6 | 9 | 9 | 5 | 4 | 5 | 6 | 9 | 3 | 25.0 | 15.8 |
| Topology | 18 | 16 | 9 | 11 | 8 | 5 | 14 | 13 | 15 | 10 | 31.6 | 20.0 |
| Mathematics, general | 31 | 37 | 56 | 54 | 64 | 45 | 44 | 39 | 22 | 33 | 17.2 | 22.0 |
| Mathematics, other | 9 | 13 | 21 | 16 | 19 | 21 | 36 | 43 | 46 | 29 | 20.0 | 29.3 |
| Computer sciences, total | 117 | 120 | 138 | 137 | 186 | 139 | 150 | 159 | 156 | 142 | 14.6 | 16.5 |
| Computer science | 96 | 91 | 123 | 118 | 160 | 116 | 132 | 120 | 119 | 104 | 13.3 | 14.4 |
| Information science/ systems | 21 | 29 | 15 | 19 | 26 | 23 | 18 | 39 | 37 | 38 | 26.2 | 27.3 |
| Biological/agricultural sciences, total | 1,982 | 2,064 | 2,278 | 2,358 | 2,445 | 2,697 | 2,754 | 2,832 | 2,673 | 2,895 | 34.6 | 42.6 |
| Biological sciences, total | 1,773 | 1,831 | 2,050 | 2,109 | 2,217 | 2,415 | 2,494 | 2,534 | 2,393 | 2,621 | 38.1 | 44.8 |
| Bacteriology | 5 | 5 | 6 | 11 | 6 | 8 | 1 | 4 | 6 | 6 | 45.5 | 40.0 |
| Biochemistry | 289 | 284 | 318 | 320 | 341 | 317 | 364 | 349 | 308 | 325 | 37.8 | 41.8 |
| Biomedical sciences[10] | na | na | na | na | 42 | 54 | 63 | 81 | 72 | 68 | - | 43.9 |
| Biophysics | 26 | 33 | 21 | 33 | 46 | 41 | 41 | 47 | 49 | 49 | 26.0 | 29.9 |
| Biotechnology research[11] | na | na | 4 | 2 | 2 | 1 | 3 | 4 | 2 | 6 | - | 42.9 |
| Plant genetics | 5 | 8 | 12 | 5 | 12 | 16 | 11 | 18 | 9 | 17 | 21.7 | 48.6 |
| Plant pathology | 13 | 10 | 15 | 11 | 10 | 13 | 8 | 8 | 12 | 8 | 26.0 | 32.0 |
| Plant physiology | 19 | 16 | 19 | 21 | 21 | 29 | 18 | 28 | 23 | 15 | 29.2 | 38.5 |
| Botany, other | 39 | 45 | 43 | 46 | 34 | 44 | 31 | 55 | 25 | 53 | 37.1 | 57.6 |
| Anatomy | 31 | 31 | 34 | 29 | 25 | 20 | 19 | 8 | 16 | 17 | 40.3 | 42.5 |
| Biometrics/biostatistics | 29 | 24 | 21 | 34 | 23 | 34 | 43 | 39 | 36 | 41 | 49.2 | 44.6 |
| Cell biology | 63 | 80 | 116 | 102 | 117 | 107 | 113 | 154 | 135 | 155 | 42.3 | 46.0 |
| Developmental biology/ embryology[12] | 20 | 22 | 25 | 32 | 29 | 49 | 61 | 61 | 54 | 60 | 54.1 | 54.1 |
| Ecology | 60 | 65 | 67 | 70 | 64 | 84 | 108 | 114 | 121 | 116 | 31.7 | 39.1 |
| Endocrinology | 16 | 12 | 12 | 8 | 6 | 13 | 9 | 14 | 9 | 8 | 48.5 | 40.0 |
| Entomology | 35 | 35 | 28 | 28 | 27 | 36 | 42 | 38 | 37 | 37 | 25.4 | 27.0 |
| Biological immunology[13] | 76 | 83 | 73 | 74 | 82 | 129 | 93 | 115 | 100 | 115 | 42.9 | 48.3 |
| Microbiology | 150 | 157 | 183 | 177 | 188 | 185 | 185 | 169 | 163 | 190 | 40.3 | 49.6 |
| Molecular biology | 182 | 194 | 237 | 268 | 265 | 291 | 330 | 322 | 299 | 318 | 37.8 | 45.1 |
| Neuroscience | 88 | 92 | 110 | 129 | 121 | 165 | 190 | 169 | 181 | 195 | 37.0 | 39.4 |
| Nutritional sciences | 70 | 95 | 99 | 102 | 92 | 98 | 92 | 96 | 68 | 126 | 66.0 | 84.0 |
| Parasitology | 7 | 8 | 7 | 9 | 7 | 12 | 10 | 6 | 6 | 8 | 35.0 | 42.1 |
| Toxicology | 30 | 33 | 43 | 50 | 50 | 60 | 80 | 60 | 53 | 58 | 34.9 | 47.2 |
| Human/animal genetics | 71 | 61 | 76 | 87 | 92 | 101 | 103 | 91 | 105 | 113 | 44.4 | 50.2 |
| Human/animal pathology | 46 | 41 | 45 | 45 | 38 | 52 | 42 | 35 | 54 | 44 | 37.7 | 41.9 |
| Human/animal pharmacology | 91 | 92 | 121 | 106 | 129 | 142 | 143 | 120 | 113 | 123 | 34.2 | 46.1 |
| Human/animal physiology | 107 | 82 | 100 | 106 | 103 | 107 | 82 | 100 | 108 | 101 | 39.3 | 41.4 |
| Zoology, other | 39 | 45 | 32 | 32 | 50 | 31 | 34 | 43 | 47 | 55 | 31.2 | 41.4 |
| Biological sciences, general | 113 | 115 | 113 | 117 | 148 | 120 | 86 | 82 | 75 | 83 | 40.6 | 41.5 |
| Biological sciences, other | 53 | 63 | 70 | 55 | 47 | 56 | 89 | 104 | 107 | 111 | 36.3 | 50.9 |

See explanatory information, if any, and SOURCE at end of table.

## Table 2. Science and engineering (S&E) doctorates awarded to women, by field of study and year of doctorate: 1991-2000



| Field of study | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | Percent women | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | 1991 | 2000 |
| Agricultural sciences, total | 209 | 233 | 228 | 249 | 228 | 282 | 260 | 298 | 280 | 274 | 19.5 | 29.1 |
| Agronomy & crop science[14] | 11 | 23 | 19 | 17 | 13 | 17 | 10 | 18 | 16 | 14 | 9.4 | 20.0 |
| Animal breeding/genetics | 2 | 6 | 4 | 3 | 1 | 3 | 4 | 6 | 7 | 4 | 11.1 | 18.2 |
| Animal nutrition | 10 | 8 | 7 | 10 | 9 | 11 | 13 | 13 | 12 | 8 | 17.5 | 17.4 |
| Dairy science | 4 | 2 | 2 | 1 | 3 | 2 | 5 | 2 | 5 | 0 | 21.1 | .0 |
| Poultry science | 1 | 6 | 6 | 5 | 0 | 3 | 2 | 3 | 2 | 3 | 7.7 | 33.3 |
| Animal sciences, other | 20 | 21 | 19 | 25 | 19 | 26 | 14 | 16 | 23 | 26 | 21.7 | 35.6 |
| Fisheries science & management[15] | 4 | 1 | 4 | 11 | 9 | 10 | 5 | 8 | 7 | 11 | 10.3 | 25.6 |
| Wildlife/range management[16] | 8 | 7 | 17 | 13 | 8 | 22 | 13 | 15 | 8 | 11 | 13.6 | 19.6 |
| Food engineering[17] | 2 | 2 | 2 | 2 | 0 | 0 | 3 | 3 | 2 | 2 | 16.7 | 20.0 |
| Food sciences, other[17] | 46 | 60 | 57 | 69 | 54 | 69 | 79 | 66 | 67 | 66 | 33.6 | 46.5 |
| Forest biology[18] | 3 | 8 | 7 | 6 | 5 | 4 | 1 | 6 | 4 | 8 | 17.6 | 36.4 |
| Forest engineering[18] | 1 | 0 | 0 | na | 0 | 0 | 2 | 0 | 0 | 0 | 50.0 | .0 |
| Forest management[18] | 4 | 1 | 0 | 2 | 6 | 2 | 4 | 9 | 3 | 2 | 18.2 | 15.4 |
| Wood science & pulp/paper technology[18] | 2 | 2 | 3 | 6 | 6 | 3 | 2 | 4 | 6 | 1 | 12.5 | 9.1 |
| Conservation/renewable natural resources[18] | 3 | 1 | 4 | 6 | 5 | 3 | 7 | 11 | 9 | 5 | 15.8 | 26.3 |
| Forestry & related sciences, other[18] | 5 | 9 | 9 | 6 | 13 | 18 | 15 | 16 | 16 | 17 | 11.1 | 31.5 |
| Horticulture science | 19 | 16 | 15 | 14 | 22 | 22 | 16 | 13 | 16 | 16 | 24.4 | 29.1 |
| Plant breeding/genetics | 10 | 12 | 14 | 13 | 15 | 13 | 9 | 14 | 13 | 23 | 14.5 | 33.8 |
| Plant pathology | 26 | 20 | 15 | 20 | 9 | 27 | 26 | 24 | 27 | 12 | 28.9 | 19.0 |
| Plant protection/pest management[19] | 0 | na | na | na | na | na | na | na | na | na | .0 | - |
| Plant sciences, other | 4 | 6 | 9 | 9 | 3 | 3 | 7 | 14 | 12 | 10 | 23.5 | 34.5 |
| Soil chemistry/ microbiology[20] | 6 | 3 | 5 | 4 | 5 | 9 | 9 | 7 | 8 | 8 | 25.0 | 30.8 |
| Soil sciences, other[20] | 11 | 12 | 4 | 6 | 18 | 14 | 8 | 21 | 11 | 15 | 14.1 | 23.4 |
| Agricultural sciences, general | 1 | 2 | 2 | 0 | 3 | 0 | 2 | 1 | 0 | 2 | 33.3 | 20.0 |
| Agricultural sciences, other | 6 | 5 | 4 | 1 | 2 | 1 | 4 | 8 | 6 | 10 | 21.4 | 38.5 |

See explanatory information, if any, and SOURCE at end of table.

## Table 2. Science and engineering (S&E) doctorates awarded to women, by field of study and year of doctorate: 1991-2000



| Field of study | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | Percent women | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | 1991 | 2000 |
| Psychology, total | 1,996 | 1,928 | 2,088 | 2,101 | 2,180 | 2,328 | 2,370 | 2,453 | 2,441 | 2,414 | 61.4 | 66.6 |
| Clinical | 848 | 810 | 873 | 842 | 870 | 919 | 901 | 965 | 1,034 | 996 | 65.0 | 73.4 |
| Cognitive psychology & psycholinguistics[21] | 46 | 47 | 48 | 56 | 52 | 60 | 75 | 50 | 70 | 66 | 48.9 | 46.8 |
| Comparative | 5 | 2 | 3 | 7 | 1 | 2 | 3 | 4 | 7 | 2 | 71.4 | 28.6 |
| Counseling | 306 | 289 | 284 | 310 | 297 | 303 | 313 | 295 | 295 | 312 | 61.6 | 65.7 |
| Developmental & child[22] | 119 | 131 | 155 | 132 | 121 | 154 | 170 | 207 | 149 | 163 | 76.8 | 80.3 |
| Educational | 64 | 69 | 67 | 39 | 53 | 66 | 45 | 39 | 45 | 63 | 58.2 | 64.9 |
| Experimental | 64 | 73 | 68 | 71 | 83 | 68 | 70 | 65 | 64 | 59 | 45.1 | 44.4 |
| Family & marriage counseling[10] | na | na | na | na | 37 | 28 | 43 | 28 | 38 | 29 | - | 53.7 |
| Human/individual & family development[23] | na | na | na | 103 | 118 | 121 | 101 | 90 | 110 | 103 | - | 69.6 |
| Industrial/organizational | 76 | 64 | 73 | 69 | 89 | 99 | 103 | 110 | 99 | 112 | 53.5 | 59.6 |
| Physiological/ psychobiology[24] | 21 | 25 | 50 | 52 | 35 | 41 | 42 | 49 | 49 | 56 | 46.7 | 62.9 |
| Quantitative | 2 | 5 | 11 | 8 | 9 | 7 | 10 | 8 | 7 | 2 | 28.6 | 25.0 |
| Personality | 4 | 8 | 12 | 12 | 9 | 11 | 13 | 15 | 11 | 14 | 30.8 | 60.9 |
| Psychometrics | 3 | 2 | 2 | 1 | 4 | 3 | 7 | 5 | 2 | 5 | 33.3 | 38.5 |
| School | 57 | 59 | 65 | 53 | 62 | 71 | 66 | 81 | 89 | 77 | 69.5 | 78.6 |
| Social | 86 | 78 | 67 | 100 | 84 | 111 | 116 | 117 | 115 | 135 | 58.5 | 64.6 |
| Psychology, general | 185 | 168 | 185 | 158 | 185 | 180 | 200 | 201 | 125 | 136 | 57.1 | 56.9 |
| Psychology, other | 110 | 98 | 125 | 88 | 71 | 84 | 92 | 124 | 132 | 84 | 64.3 | 59.6 |
| Social sciences, total | 1,313 | 1,299 | 1,422 | 1,443 | 1,466 | 1,461 | 1,591 | 1,683 | 1,694 | 1,782 | 36.9 | 42.9 |
| Economics, total | 217 | 219 | 246 | 249 | 279 | 263 | 266 | 311 | 291 | 293 | 20.6 | 27.0 |
| Agricultural economics | 38 | 28 | 31 | 20 | 42 | 37 | 34 | 40 | 39 | 38 | 22.6 | 27.7 |
| Econometrics | 5 | 2 | 7 | 4 | 4 | 8 | 4 | 4 | 5 | 3 | 20.8 | 20.0 |
| Economics | 174 | 189 | 208 | 225 | 233 | 218 | 228 | 267 | 247 | 252 | 20.2 | 27.0 |
| Political science, total | 211 | 235 | 246 | 282 | 266 | 305 | 297 | 365 | 357 | 365 | 28.5 | 37.0 |
| International relations & affairs[25] | 24 | 24 | 28 | 24 | 21 | 32 | 19 | 33 | 38 | 26 | 27.3 | 33.8 |
| Political science/ government | 117 | 142 | 129 | 173 | 167 | 186 | 197 | 243 | 216 | 236 | 27.0 | 35.2 |
| Public administration | 32 | 30 | 41 | 47 | 43 | 37 | 30 | 48 | 48 | 41 | 29.9 | 40.2 |
| Public policy analysis[26] | 38 | 39 | 48 | 38 | 35 | 50 | 51 | 41 | 55 | 62 | 34.2 | 45.3 |
| Sociology, total | 246 | 250 | 255 | 283 | 294 | 276 | 334 | 317 | 341 | 375 | 49.9 | 59.1 |
| Demography/population studies[27] | 16 | 5 | 12 | 12 | 6 | 2 | 16 | 13 | 17 | 9 | 57.1 | 47.4 |
| Sociology | 230 | 245 | 243 | 271 | 288 | 274 | 318 | 304 | 324 | 366 | 49.5 | 59.5 |
| Other social sciences, total | 639 | 595 | 675 | 629 | 627 | 617 | 694 | 690 | 705 | 749 | 50.3 | 51.8 |
| American studies | 56 | 47 | 57 | 48 | 53 | 67 | 47 | 52 | 56 | 63 | 60.9 | 55.8 |
| Anthropology | 210 | 155 | 213 | 208 | 219 | 214 | 241 | 239 | 262 | 252 | 61.6 | 56.5 |
| Archaeology | 20 | 17 | 18 | 17 | 18 | 11 | 20 | 23 | 12 | 24 | 60.6 | 66.7 |
| Area studies | 5 | 11 | 11 | 17 | 12 | 9 | 5 | 11 | 3 | 4 | 20.8 | 28.6 |
| Criminology | 18 | 15 | 15 | 12 | 23 | 25 | 25 | 22 | 20 | 34 | 51.4 | 51.5 |
| Geography | 33 | 29 | 40 | 35 | 43 | 45 | 54 | 49 | 49 | 70 | 30.6 | 35.5 |
| History/philosophy of science & technology[28] | 11 | 8 | 16 | 10 | 17 | 10 | 13 | 19 | 18 | 17 | 40.7 | 40.5 |
| Linguistics | 112 | 133 | 118 | 134 | 102 | 113 | 135 | 123 | 147 | 134 | 49.3 | 58.5 |
| Statistics | 10 | 11 | 14 | 16 | 11 | 7 | 23 | 21 | 21 | 22 | 32.3 | 36.7 |
| Urban affairs & studies[29] | 22 | 31 | 44 | 43 | 37 | 38 | 29 | 26 | 17 | 28 | 24.4 | 35.9 |
| Social sciences, general | 17 | 20 | 13 | 9 | 23 | 15 | 14 | 17 | 14 | 20 | 47.2 | 51.3 |
| Social sciences, other | 125 | 118 | 116 | 80 | 69 | 63 | 88 | 88 | 86 | 81 | 55.3 | 64.3 |

See explanatory information, if any, and SOURCE at end of table.

## Table 2. Science and engineering (S&E) doctorates awarded to women, by field of study and year of doctorate: 1991-2000



| Field of study | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | Percent women | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | 1991 | 2000 |
| Non-S&E, total[30] | 6,941 | 7,356 | 7,469 | 7,899 | 8,128 | 8,298 | 8,305 | 8,492 | 8,393 | 8,725 | 51.4 | 56.7 |
| Health | 668 | 710 | 777 | 843 | 843 | 860 | 936 | 1,006 | 897 | 1,063 | 64.2 | 66.9 |
| Humanities[31] | 1,720 | 1,858 | 1,918 | 2,054 | 2,256 | 2,343 | 2,381 | 2,466 | 2,416 | 2,592 | 46.2 | 49.7 |
| Education | 3,748 | 3,976 | 3,921 | 4,089 | 4,092 | 4,179 | 4,119 | 4,126 | 4,195 | 4,167 | 58.1 | 64.9 |
| Professional/other | 805 | 812 | 853 | 913 | 937 | 916 | 869 | 894 | 885 | 903 | 35.1 | 41.7 |
| Grand total, all fields | 13,873 | 14,436 | 15,121 | 15,820 | 16,414 | 16,944 | 17,246 | 17,834 | 17,464 | 18,121 | 37.0 | 43.8 |

1 In 1993 this subfield was changed from "Polymer engineering" to "Polymer and plastics engineering."

2 In 1993 this subfield was changed from "Industrial engineering" to "Industrial and manufacturing engineering."

3 In 1993 this subfield was changed from "Ceramic engineering" to "Ceramic sciences engineering."

4 These subfields were deleted in 1991: "Naval architecture/marine engineering," "Electron physics," and "Applied geology."

5 In 1993 this subfield was changed from "Pharmaceutical chemistry" to "Medicinal and pharmaceutical chemistry."

6 In 1993 this subfield was changed from "Atomic/molecular physics" to "Chemical and atomic/molecular physics."

7 In 1993 this subfield was changed from "Plasma physics" to "Plasma and high-temperature physics."

8 In 1993 this subfield was changed from "Solid state physics" to "Solid state and low-temperature physics."

9 In 1993 this subfield was changed from "Math probability and statistics" to "Mathematical statistics."

10 These subfields were introduced in 1995: "Biomedical sciences" and "Family and marriage counseling."

11 "Biotechnology research" was introduced in 1993.

12 In 1990 this subfield was changed from "Embryology" to "Developmental biology/embryology."

13 In 1993 this subfield was changed from "Immunology" to "Biological immunology."

14 In 1993 this subfield was changed from "Agronomy" to "Agronomy and crop science."

15 In 1993 this subfield was changed from "Fisheries science" to "Fisheries science and management."

16 In 1988 this subfield was changed from "Wildlife management" to "Wildlife/range management."

17 In 1990 "Food sciences" was separated into "Food engineering" and "Food sciences, other."

18 In 1988 "Forestry science" was separated into "Forest biology," "Forest engineering," "Forest management," "Wood science," "Renewable natural resources," and "Forestry and related sciences, other." In 1993 "Pulp and paper technology" was added to "Wood science," and "Conservation" was added to "Renewable natural resources." "Forest engineering" was deleted from the survey in 1994 and reintroduced in 1995.

19 "Plant protection/pest management" was deleted in 1991.

20 In 1988 "Soil sciences" was separated into "Soil chemistry/microbiology" and "Soil sciences, other."

21 In 1993 this subfield was changed from "Cognitive psychology" to "Cognitive psychology and psycholinguistics."

22 In 1993 this subfield was changed from "Developmental psychology" to "Developmental and child psychology."

23 "Human/individual & family development" was introduced in 1994.

24 In 1993 this subfield was changed from "Physiological psychology" to "Physiological psychology/psychobiology."

25 In 1993 this subfield was changed from "International relations" to "International relations and affairs."

26 In 1993 this subfield was changed from "Public policy studies" to "Public policy analysis."

27 In 1993 this subfield was changed from "Demography" to "Demography and population studies."

28 In 1993 this subfield was changed from "History of science" to "History and philosophy of science and technology."

29 In 1993 this subfield was changed from "Urban studies" to "Urban affairs and studies."

30 Non-S&E doctorates include those whose field of specialization is unknown.

31 Categories differ from those published by other Federal sponsors and the Summary Reports in that linguistics, history of science, American studies, and archaeology are included not in humanities but in social science.

**KEY:** - = Percent not available as data were not collected that year.
na = Not available (i.e., the subfield was not identified separately in the questionnaire for that year)

**SOURCE:** National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000



| Field of study | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|---|---|---|---|---|---|---|---|---|---|
| | U.S. citizens or permanent residents | | | | | | | | | |
| Science and engineering, total | 15,914 | 15,942 | 16,573 | 18,187 | 18,996 | 18,638 | 18,399 | 18,245 | 17,452 | 17,064 |
| Engineering, total | 2,474 | 2,520 | 2,697 | 3,053 | 3,342 | 3,387 | 3,329 | 3,044 | 2,876 | 2,556 |
| Chemical | 399 | 378 | 377 | 380 | 381 | 391 | 409 | 373 | 371 | 380 |
| Civil | 213 | 215 | 227 | 292 | 309 | 305 | 327 | 297 | 311 | 260 |
| Electrical | 686 | 719 | 795 | 899 | 971 | 928 | 938 | 804 | 764 | 643 |
| Mechanical | 359 | 426 | 434 | 538 | 563 | 588 | 537 | 516 | 461 | 395 |
| Other engineering | 817 | 782 | 864 | 944 | 1,118 | 1,175 | 1,118 | 1,054 | 969 | 878 |
| Sciences, total | 13,440 | 13,422 | 13,876 | 15,134 | 15,654 | 15,251 | 15,070 | 15,201 | 14,576 | 14,508 |
| Physical sciences, total | 2,300 | 2,357 | 2,330 | 2,789 | 2,841 | 2,569 | 2,497 | 2,452 | 2,271 | 2,084 |
| Astronomy | 86 | 106 | 111 | 112 | 141 | 149 | 158 | 147 | 117 | 140 |
| Chemistry | 1,461 | 1,441 | 1,400 | 1,616 | 1,624 | 1,462 | 1,439 | 1,465 | 1,404 | 1,236 |
| Physics | 739 | 790 | 806 | 1,044 | 1,059 | 948 | 883 | 822 | 738 | 688 |
| Other physical sciences | 14 | 20 | 13 | 17 | 17 | 10 | 17 | 18 | 12 | 20 |
| Earth, atmospheric, & ocean sciences | 618 | 541 | 504 | 613 | 594 | 558 | 607 | 562 | 523 | 509 |
| Mathematics | 518 | 507 | 590 | 657 | 771 | 648 | 629 | 669 | 603 | 568 |
| Computer sciences | 451 | 489 | 509 | 543 | 616 | 514 | 521 | 558 | 483 | 458 |
| Biological sciences | 3,525 | 3,568 | 3,752 | 4,088 | 4,329 | 4,365 | 4,254 | 4,304 | 4,113 | 4,260 |
| Agricultural sciences | 620 | 573 | 506 | 616 | 598 | 576 | 551 | 543 | 491 | 501 |
| Psychology | 3,018 | 2,986 | 3,161 | 3,136 | 3,184 | 3,228 | 3,135 | 3,274 | 3,238 | 3,221 |
| Social sciences | 2,390 | 2,401 | 2,524 | 2,692 | 2,721 | 2,793 | 2,876 | 2,839 | 2,854 | 2,907 |
| Non-S&E, total | 11,516 | 12,048 | 12,134 | 12,707 | 13,062 | 12,879 | 12,682 | 12,889 | 12,490 | 12,773 |
| Health | 839 | 855 | 939 | 1,050 | 1,044 | 1,016 | 1,027 | 1,153 | 1,039 | 1,188 |
| Humanities[1] | 3,194 | 3,440 | 3,511 | 3,766 | 4,055 | 4,045 | 4,234 | 4,324 | 4,274 | 4,383 |
| Education | 5,788 | 6,017 | 5,968 | 6,063 | 5,995 | 6,062 | 5,745 | 5,740 | 5,617 | 5,656 |
| Professional/other | 1,695 | 1,736 | 1,716 | 1,828 | 1,968 | 1,756 | 1,676 | 1,672 | 1,560 | 1,546 |
| Grand total, all fields | 27,430 | 27,990 | 28,707 | 30,894 | 32,058 | 31,517 | 31,081 | 31,134 | 29,942 | 29,837 |
| | U.S. citizens or permanent residents, American Indian/Alaskan Native | | | | | | | | | |
| Science and engineering, total | 56 | 69 | 43 | 64 | 68 | 97 | 79 | 96 | 116 | 88 |
| Engineering, total | 6 | 11 | 2 | 6 | 9 | 15 | 17 | 13 | 12 | 8 |
| Chemical | 1 | 1 | 1 | 1 | 2 | 1 | 4 | 3 | 2 | 1 |
| Civil | 1 | 1 | 0 | 0 | 0 | 2 | 2 | 0 | 2 | 1 |
| Electrical | 2 | 4 | 0 | 1 | 1 | 2 | 5 | 3 | 1 | 0 |
| Mechanical | 1 | 1 | 0 | 0 | 2 | 4 | 6 | 2 | 2 | 3 |
| Other engineering | 1 | 4 | 1 | 4 | 4 | 6 | 0 | 5 | 5 | 3 |
| Sciences, total | 50 | 58 | 41 | 58 | 59 | 82 | 62 | 83 | 104 | 80 |
| Physical sciences, total | 10 | 12 | 5 | 6 | 7 | 6 | 10 | 10 | 10 | 9 |
| Astronomy | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 2 | 1 |
| Chemistry | 9 | 6 | 2 | 4 | 5 | 4 | 6 | 7 | 5 | 7 |
| Physics | 1 | 6 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 1 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| Earth, atmospheric, & ocean sciences | 3 | 1 | 4 | 1 | 0 | 2 | 2 | 3 | 6 | 5 |
| Mathematics | 0 | 2 | 1 | 2 | 2 | 1 | 1 | 3 | 1 | 2 |
| Computer sciences | 1 | 2 | 1 | 1 | 0 | 4 | 1 | 3 | 1 | 1 |
| Biological sciences | 10 | 13 | 7 | 16 | 15 | 20 | 7 | 12 | 20 | 17 |
| Agricultural sciences | 4 | 0 | 1 | 1 | 2 | 6 | 5 | 9 | 2 | 4 |
| Psychology | 13 | 15 | 15 | 12 | 14 | 18 | 18 | 31 | 35 | 22 |
| Social sciences | 9 | 13 | 7 | 19 | 19 | 25 | 18 | 12 | 29 | 20 |
| Non-S&E, total | 76 | 80 | 77 | 79 | 80 | 91 | 87 | 93 | 101 | 81 |
| Health | 5 | 5 | 6 | 6 | 9 | 4 | 6 | 4 | 6 | 4 |
| Humanities[1] | 10 | 18 | 10 | 20 | 18 | 18 | 19 | 21 | 21 | 20 |
| Education | 56 | 50 | 51 | 37 | 41 | 60 | 51 | 50 | 59 | 51 |
| Professional/other | 5 | 7 | 10 | 16 | 12 | 9 | 11 | 18 | 15 | 6 |
| Grand total, all fields | 132 | 149 | 120 | 143 | 148 | 188 | 166 | 189 | 217 | 169 |

See explanatory information, if any, and SOURCE at end of table.

BEST COPY AVAILABLE

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000



| Field of study | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|---|---|---|---|---|---|---|---|---|---|
| | U.S. citizens or permanent residents, Asian/Pacific Islander | | | | | | | | | |
| Science and engineering, total | 1,180 | 1,345 | 1,610 | 2,989 | 3,669 | 3,095 | 2,538 | 2,143 | 1,949 | 1,736 |
| Engineering, total | 405 | 451 | 527 | 867 | 1,033 | 897 | 707 | 556 | 516 | 447 |
| Chemical | 50 | 54 | 62 | 96 | 101 | 80 | 73 | 65 | 58 | 71 |
| Civil | 30 | 34 | 41 | 69 | 91 | 89 | 72 | 38 | 46 | 46 |
| Electrical | 140 | 175 | 199 | 304 | 322 | 278 | 256 | 206 | 173 | 141 |
| Mechanical | 62 | 78 | 93 | 179 | 189 | 166 | 113 | 90 | 90 | 73 |
| Other engineering | 123 | 110 | 132 | 219 | 330 | 286 | 193 | 157 | 149 | 116 |
| Sciences, total | 775 | 894 | 1,083 | 2,122 | 2,636 | 2,198 | 1,831 | 1,587 | 1,433 | 1,289 |
| Physical sciences, total | 172 | 227 | 265 | 600 | 751 | 503 | 402 | 333 | 257 | 203 |
| Astronomy | 0 | 4 | 4 | 10 | 22 | 12 | 8 | 13 | 3 | 13 |
| Chemistry | 122 | 135 | 157 | 332 | 416 | 295 | 235 | 206 | 187 | 120 |
| Physics | 50 | 88 | 103 | 255 | 312 | 195 | 158 | 113 | 67 | 69 |
| Other physical sciences | 0 | 0 | 1 | 3 | 1 | 1 | 1 | 1 | 0 | 1 |
| Earth, atmospheric, & ocean sciences | 17 | 27 | 22 | 89 | 104 | 77 | 72 | 51 | 39 | 29 |
| Mathematics | 57 | 52 | 79 | 142 | 208 | 140 | 97 | 71 | 58 | 70 |
| Computer sciences | 66 | 86 | 77 | 117 | 137 | 111 | 108 | 91 | 86 | 77 |
| Biological sciences | 261 | 269 | 370 | 720 | 924 | 890 | 723 | 658 | 617 | 550 |
| Agricultural sciences | 24 | 37 | 29 | 72 | 78 | 81 | 63 | 47 | 45 | 31 |
| Psychology | 59 | 59 | 73 | 109 | 122 | 124 | 127 | 114 | 129 | 149 |
| Social sciences | 119 | 137 | 168 | 273 | 312 | 272 | 239 | 222 | 202 | 180 |
| Non-S&E, total | 351 | 419 | 407 | 557 | 640 | 604 | 582 | 579 | 566 | 579 |
| Health | 44 | 52 | 45 | 94 | 93 | 87 | 87 | 85 | 85 | 99 |
| Humanities[1] | 81 | 99 | 108 | 151 | 194 | 191 | 180 | 194 | 197 | 185 |
| Education | 130 | 144 | 144 | 173 | 179 | 185 | 181 | 179 | 168 | 174 |
| Professional/other | 96 | 124 | 110 | 139 | 174 | 141 | 134 | 121 | 116 | 121 |
| Grand total, all fields | 1,531 | 1,764 | 2,017 | 3,546 | 4,309 | 3,699 | 3,120 | 2,722 | 2,515 | 2,315 |
| | U.S. citizens or permanent residents, black | | | | | | | | | |
| Science and engineering, total | 464 | 408 | 469 | 500 | 560 | 576 | 623 | 646 | 716 | 728 |
| Engineering, total | 55 | 49 | 50 | 54 | 71 | 74 | 98 | 84 | 97 | 83 |
| Chemical | 8 | 13 | 6 | 8 | 3 | 12 | 16 | 3 | 11 | 9 |
| Civil | 12 | 3 | 5 | 8 | 11 | 8 | 10 | 10 | 6 | 6 |
| Electrical | 16 | 17 | 15 | 17 | 24 | 22 | 31 | 23 | 29 | 21 |
| Mechanical | 3 | 5 | 3 | 7 | 14 | 10 | 12 | 14 | 12 | 18 |
| Other engineering | 16 | 11 | 21 | 14 | 19 | 22 | 29 | 34 | 39 | 29 |
| Sciences, total | 409 | 359 | 419 | 446 | 489 | 502 | 525 | 562 | 619 | 645 |
| Physical sciences, total | 32 | 25 | 41 | 46 | 43 | 60 | 52 | 56 | 66 | 62 |
| Astronomy | 0 | 1 | 2 | 0 | 1 | 0 | 2 | 1 | 2 | 1 |
| Chemistry | 23 | 17 | 31 | 34 | 33 | 45 | 35 | 45 | 56 | 44 |
| Physics | 9 | 6 | 7 | 11 | 9 | 15 | 15 | 10 | 8 | 16 |
| Other physical sciences | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Earth, atmospheric, & ocean sciences | 3 | 6 | 4 | 6 | 3 | 4 | 8 | 9 | 14 | 7 |
| Mathematics | 11 | 4 | 8 | 11 | 5 | 8 | 7 | 16 | 12 | 14 |
| Computer sciences | 8 | 5 | 6 | 10 | 11 | 12 | 4 | 14 | 18 | 18 |
| Biological sciences | 64 | 62 | 75 | 79 | 108 | 98 | 111 | 110 | 116 | 123 |
| Agricultural sciences | 17 | 14 | 16 | 22 | 17 | 25 | 25 | 19 | 24 | 18 |
| Psychology | 130 | 106 | 119 | 124 | 151 | 154 | 156 | 156 | 173 | 193 |
| Social sciences | 144 | 137 | 150 | 148 | 151 | 141 | 162 | 182 | 196 | 210 |
| Non-S&E, total | 702 | 708 | 811 | 779 | 915 | 880 | 865 | 956 | 1,012 | 1,047 |
| Health | 40 | 38 | 59 | 46 | 60 | 49 | 55 | 65 | 56 | 75 |
| Humanities[1] | 92 | 90 | 98 | 106 | 114 | 119 | 142 | 141 | 167 | 161 |
| Education | 472 | 501 | 557 | 521 | 627 | 608 | 558 | 651 | 652 | 699 |
| Professional/other | 98 | 79 | 97 | 106 | 114 | 104 | 110 | 99 | 137 | 112 |
| Grand total, all fields | 1,166 | 1,116 | 1,280 | 1,279 | 1,475 | 1,456 | 1,488 | 1,602 | 1,728 | 1,775 |

See explanatory information, if any, and SOURCE at end of table.

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000



| Field of study | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|---|---|---|---|---|---|---|---|---|---|
| | U.S. citizens or permanent residents, Hispanic | | | | | | | | | |
| Science and engineering, total | 493 | 513 | 542 | 548 | 563 | 618 | 656 | 753 | 710 | 704 |
| Engineering, total | 61 | 71 | 66 | 66 | 76 | 97 | 95 | 110 | 82 | 80 |
| Chemical | 11 | 16 | 10 | 7 | 12 | 18 | 6 | 13 | 7 | 17 |
| Civil | 5 | 7 | 12 | 14 | 11 | 6 | 12 | 16 | 12 | 8 |
| Electrical | 16 | 17 | 17 | 21 | 15 | 27 | 25 | 31 | 29 | 22 |
| Mechanical | 9 | 11 | 5 | 8 | 8 | 12 | 15 | 19 | 9 | 12 |
| Other engineering | 20 | 20 | 22 | 16 | 30 | 34 | 37 | 31 | 25 | 21 |
| Sciences, total | 432 | 442 | 476 | 482 | 487 | 521 | 561 | 643 | 628 | 624 |
| Physical sciences, total | 65 | 72 | 79 | 90 | 73 | 66 | 69 | 54 | 62 | 77 |
| Astronomy | 1 | 4 | 2 | 2 | 4 | 2 | 3 | 2 | 0 | 3 |
| Chemistry | 46 | 42 | 51 | 59 | 43 | 35 | 44 | 34 | 46 | 50 |
| Physics | 18 | 26 | 26 | 29 | 26 | 29 | 22 | 18 | 16 | 23 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Earth, atmospheric, & ocean sciences | 16 | 16 | 13 | 8 | 13 | 19 | 16 | 16 | 21 | 18 |
| Mathematics | 9 | 12 | 16 | 13 | 15 | 10 | 20 | 27 | 15 | 14 |
| Computer sciences | 12 | 8 | 7 | 7 | 6 | 16 | 17 | 14 | 14 | 13 |
| Biological sciences | 95 | 102 | 114 | 131 | 125 | 128 | 146 | 168 | 173 | 173 |
| Agricultural sciences | 15 | 18 | 20 | 25 | 21 | 12 | 27 | 35 | 15 | 26 |
| Psychology | 122 | 133 | 131 | 133 | 145 | 173 | 170 | 208 | 208 | 194 |
| Social sciences | 98 | 81 | 96 | 75 | 89 | 97 | 96 | 121 | 120 | 109 |
| Non-S&E, total | 375 | 396 | 430 | 482 | 491 | 485 | 537 | 571 | 580 | 575 |
| Health | 16 | 13 | 24 | 25 | 30 | 38 | 32 | 37 | 46 | 34 |
| Humanities[1] | 136 | 129 | 144 | 168 | 154 | 178 | 207 | 197 | 194 | 208 |
| Education | 189 | 214 | 222 | 241 | 258 | 216 | 255 | 289 | 285 | 281 |
| Professional/other | 34 | 40 | 40 | 48 | 49 | 53 | 43 | 48 | 55 | 52 |
| Grand total, all fields | 868 | 909 | 972 | 1,030 | 1,054 | 1,103 | 1,193 | 1,324 | 1,290 | 1,279 |
| | U.S. citizens or permanent residents, Puerto Rican | | | | | | | | | |
| Science and engineering, total | 99 | 120 | 112 | 131 | 137 | 140 | 173 | 173 | 183 | 168 |
| Engineering, total | 9 | 13 | 10 | 10 | 13 | 22 | 23 | 17 | 23 | 20 |
| Chemical | 2 | 3 | 2 | 2 | 4 | 4 | 1 | 3 | 2 | 5 |
| Civil | 1 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 2 | 2 |
| Electrical | 0 | 3 | 5 | 3 | 3 | 4 | 4 | 3 | 11 | 6 |
| Mechanical | 2 | 1 | 1 | 1 | 1 | 3 | 6 | 5 | 2 | 2 |
| Other engineering | 4 | 5 | 1 | 3 | 4 | 10 | 7 | 5 | 6 | 5 |
| Sciences, total | 90 | 107 | 102 | 121 | 124 | 118 | 150 | 156 | 160 | 148 |
| Physical sciences, total | 17 | 20 | 17 | 26 | 21 | 12 | 20 | 11 | 22 | 19 |
| Astronomy | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 |
| Chemistry | 14 | 14 | 14 | 19 | 17 | 9 | 13 | 9 | 18 | 18 |
| Physics | 3 | 5 | 3 | 7 | 3 | 3 | 7 | 1 | 4 | 1 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, & ocean sciences | 0 | 3 | 1 | 0 | 2 | 3 | 6 | 5 | 5 | 5 |
| Mathematics | 0 | 2 | 1 | 1 | 1 | 3 | 4 | 7 | 2 | 2 |
| Computer sciences | 3 | 1 | 1 | 4 | 0 | 5 | 6 | 2 | 6 | 4 |
| Biological sciences | 23 | 27 | 27 | 28 | 30 | 30 | 37 | 43 | 47 | 33 |
| Agricultural sciences | 0 | 3 | 10 | 5 | 3 | 4 | 5 | 3 | 1 | 6 |
| Psychology | 20 | 35 | 24 | 43 | 44 | 48 | 56 | 71 | 56 | 60 |
| Social sciences | 27 | 16 | 21 | 14 | 23 | 13 | 16 | 14 | 21 | 19 |
| Non-S&E, total | 92 | 109 | 120 | 126 | 132 | 109 | 141 | 135 | 150 | 139 |
| Health | 3 | 4 | 3 | 6 | 12 | 7 | 10 | 7 | 11 | 9 |
| Humanities[1] | 30 | 22 | 36 | 38 | 30 | 38 | 49 | 37 | 31 | 44 |
| Education | 52 | 76 | 70 | 68 | 69 | 51 | 71 | 77 | 89 | 71 |
| Professional/other | 7 | 7 | 11 | 14 | 21 | 13 | 11 | 14 | 19 | 15 |
| Grand total, all fields | 191 | 229 | 232 | 257 | 269 | 249 | 314 | 308 | 333 | 307 |

See explanatory information, if any, and SOURCE at end of table.

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000



| Field of study | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|---|---|---|---|---|---|---|---|---|---|
| | U.S. citizens or permanent residents, Mexican American | | | | | | | | | |
| Science and engineering, total | 126 | 120 | 122 | 145 | 148 | 144 | 160 | 223 | 163 | 210 |
| Engineering, total | 14 | 10 | 12 | 15 | 19 | 26 | 18 | 30 | 13 | 25 |
| Chemical | 4 | 1 | 1 | 1 | 3 | 3 | 2 | 1 | 0 | 4 |
| Civil | 2 | 2 | 0 | 2 | 7 | 2 | 2 | 5 | 3 | 3 |
| Electrical | 3 | 3 | 2 | 4 | 3 | 9 | 5 | 7 | 4 | 4 |
| Mechanical | 3 | 2 | 0 | 2 | 2 | 3 | 3 | 3 | 1 | 6 |
| Other engineering | 2 | 2 | 9 | 6 | 4 | 9 | 6 | 14 | 5 | 8 |
| Sciences, total | 112 | 110 | 110 | 130 | 129 | 118 | 142 | 193 | 150 | 185 |
| Physical sciences, total | 15 | 9 | 12 | 24 | 13 | 22 | 15 | 21 | 16 | 23 |
| Astronomy | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 1 |
| Chemistry | 12 | 6 | 8 | 19 | 8 | 14 | 9 | 15 | 9 | 17 |
| Physics | 3 | 3 | 4 | 4 | 4 | 7 | 6 | 5 | 7 | 5 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, & ocean sciences | 4 | 7 | 2 | 4 | 4 | 5 | 3 | 5 | 5 | 5 |
| Mathematics | 3 | 4 | 4 | 4 | 6 | 1 | 3 | 6 | 7 | 8 |
| Computer sciences | 0 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 4 |
| Biological sciences | 26 | 24 | 24 | 30 | 27 | 28 | 44 | 54 | 41 | 46 |
| Agricultural sciences | 5 | 5 | 4 | 6 | 4 | 1 | 2 | 10 | 3 | 6 |
| Psychology | 35 | 37 | 42 | 40 | 48 | 38 | 49 | 53 | 43 | 60 |
| Social sciences | 24 | 21 | 21 | 20 | 24 | 22 | 24 | 41 | 34 | 33 |
| Non-S&E, total | 106 | 99 | 130 | 163 | 140 | 144 | 145 | 199 | 181 | 201 |
| Health | 3 | 5 | 8 | 5 | 8 | 6 | 7 | 15 | 16 | 11 |
| Humanities[1] | 27 | 24 | 35 | 42 | 34 | 41 | 38 | 58 | 46 | 61 |
| Education | 67 | 58 | 74 | 102 | 93 | 79 | 90 | 115 | 101 | 116 |
| Professional/other | 9 | 12 | 13 | 14 | 5 | 18 | 10 | 11 | 18 | 13 |
| Grand total, all fields | 232 | 219 | 252 | 308 | 288 | 288 | 305 | 422 | 344 | 411 |
| | U.S. citizens or permanent residents, other Hispanic | | | | | | | | | |
| Science and engineering, total | 268 | 273 | 308 | 272 | 278 | 334 | 323 | 357 | 364 | 326 |
| Engineering, total | 38 | 48 | 44 | 41 | 44 | 49 | 54 | 63 | 46 | 35 |
| Chemical | 5 | 12 | 7 | 4 | 5 | 11 | 3 | 9 | 5 | 8 |
| Civil | 2 | 4 | 11 | 11 | 3 | 3 | 5 | 10 | 7 | 3 |
| Electrical | 13 | 11 | 10 | 14 | 9 | 14 | 16 | 21 | 14 | 12 |
| Mechanical | 4 | 8 | 4 | 5 | 5 | 6 | 6 | 11 | 6 | 4 |
| Other engineering | 14 | 13 | 12 | 7 | 22 | 15 | 24 | 12 | 14 | 8 |
| Sciences, total | 230 | 225 | 264 | 231 | 234 | 285 | 269 | 294 | 318 | 291 |
| Physical sciences, total | 33 | 43 | 50 | 40 | 39 | 32 | 34 | 22 | 24 | 35 |
| Astronomy | 1 | 3 | 2 | 1 | 2 | 1 | 3 | 0 | 0 | 2 |
| Chemistry | 20 | 22 | 29 | 21 | 18 | 12 | 22 | 10 | 19 | 15 |
| Physics | 12 | 18 | 19 | 18 | 19 | 19 | 9 | 12 | 5 | 17 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Earth, atmospheric, & ocean sciences | 12 | 6 | 10 | 4 | 7 | 11 | 7 | 6 | 11 | 8 |
| Mathematics | 6 | 6 | 11 | 8 | 8 | 6 | 13 | 14 | 6 | 4 |
| Computer sciences | 9 | 4 | 5 | 1 | 3 | 10 | 9 | 9 | 7 | 5 |
| Biological sciences | 46 | 51 | 63 | 73 | 68 | 70 | 65 | 71 | 85 | 94 |
| Agricultural sciences | 10 | 10 | 6 | 14 | 14 | 7 | 20 | 22 | 11 | 14 |
| Psychology | 67 | 61 | 65 | 50 | 53 | 87 | 65 | 84 | 109 | 74 |
| Social sciences | 47 | 44 | 54 | 41 | 42 | 62 | 56 | 66 | 65 | 57 |
| Non-S&E, total | 177 | 188 | 180 | 193 | 219 | 232 | 251 | 237 | 249 | 235 |
| Health | 10 | 4 | 13 | 14 | 10 | 25 | 15 | 15 | 19 | 14 |
| Humanities[1] | 79 | 83 | 73 | 88 | 90 | 99 | 120 | 102 | 117 | 103 |
| Education | 70 | 80 | 78 | 71 | 96 | 86 | 94 | 97 | 95 | 94 |
| Professional/other | 18 | 21 | 16 | 20 | 23 | 22 | 22 | 23 | 18 | 24 |
| Grand total, all fields | 445 | 461 | 488 | 465 | 497 | 566 | 574 | 594 | 613 | 561 |

See explanatory information, if any, and SOURCE at end of table.

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000



| Field of study | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|---|---|---|---|---|---|---|---|---|---|
| | U.S. citizens or permanent residents, white | | | | | | | | | |
| Science and engineering, total | 13,324 | 13,327 | 13,737 | 13,890 | 13,906 | 14,007 | 13,827 | 14,008 | 13,660 | 13,415 |
| Engineering, total | 1,837 | 1,880 | 2,025 | 2,020 | 2,093 | 2,262 | 2,287 | 2,170 | 2,103 | 1,878 |
| Chemical | 322 | 284 | 295 | 259 | 257 | 275 | 294 | 276 | 286 | 278 |
| Civil | 159 | 166 | 168 | 199 | 194 | 199 | 220 | 216 | 241 | 193 |
| Electrical | 478 | 487 | 553 | 548 | 590 | 588 | 578 | 523 | 510 | 442 |
| Mechanical | 266 | 326 | 328 | 337 | 339 | 392 | 376 | 371 | 334 | 276 |
| Other engineering | 612 | 617 | 681 | 677 | 713 | 808 | 819 | 784 | 732 | 689 |
| Sciences, total | 11,487 | 11,447 | 11,712 | 11,870 | 11,813 | 11,745 | 11,540 | 11,838 | 11,557 | 11,537 |
| Physical sciences, total | 1,969 | 1,974 | 1,911 | 2,025 | 1,924 | 1,887 | 1,883 | 1,912 | 1,834 | 1,685 |
| Astronomy | 83 | 95 | 100 | 97 | 111 | 131 | 132 | 120 | 109 | 116 |
| Chemistry | 1,239 | 1,220 | 1,145 | 1,179 | 1,112 | 1,063 | 1,078 | 1,127 | 1,088 | 984 |
| Physics | 634 | 641 | 656 | 736 | 687 | 684 | 658 | 649 | 626 | 568 |
| Other physical sciences | 13 | 18 | 10 | 13 | 14 | 9 | 15 | 16 | 11 | 17 |
| Earth, atmospheric, & ocean sciences | 557 | 485 | 455 | 504 | 464 | 449 | 487 | 464 | 431 | 432 |
| Mathematics | 419 | 425 | 476 | 479 | 535 | 479 | 479 | 526 | 505 | 460 |
| Computer sciences | 355 | 378 | 410 | 401 | 452 | 356 | 361 | 411 | 348 | 337 |
| Biological sciences | 3,041 | 3,068 | 3,146 | 3,107 | 3,118 | 3,175 | 3,158 | 3,246 | 3,127 | 3,306 |
| Agricultural sciences | 545 | 493 | 438 | 487 | 473 | 444 | 411 | 418 | 398 | 412 |
| Psychology | 2,652 | 2,636 | 2,807 | 2,730 | 2,727 | 2,744 | 2,523 | 2,650 | 2,668 | 2,601 |
| Social sciences | 1,949 | 1,988 | 2,069 | 2,137 | 2,120 | 2,211 | 2,238 | 2,211 | 2,246 | 2,304 |
| Non-S&E, total | 9,862 | 10,299 | 10,315 | 10,705 | 10,815 | 10,683 | 10,126 | 10,277 | 10,046 | 10,236 |
| Health | 720 | 735 | 800 | 867 | 836 | 823 | 827 | 930 | 832 | 954 |
| Humanities[1] | 2,821 | 3,061 | 3,109 | 3,283 | 3,521 | 3,487 | 3,525 | 3,605 | 3,619 | 3,698 |
| Education | 4,889 | 5,051 | 4,965 | 5,044 | 4,853 | 4,943 | 4,451 | 4,413 | 4,382 | 4,357 |
| Professional/other | 1,432 | 1,452 | 1,441 | 1,511 | 1,605 | 1,430 | 1,323 | 1,329 | 1,213 | 1,227 |
| Grand total, all fields | 23,186 | 23,626 | 24,052 | 24,595 | 24,721 | 24,690 | 23,953 | 24,285 | 23,706 | 23,651 |
| | U.S. citizens or permanent residents, men | | | | | | | | | |
| Science and engineering, total | 10,317 | 10,365 | 10,549 | 11,693 | 12,084 | 11,675 | 11,406 | 11,082 | 10,442 | 9,950 |
| Engineering, total | 2,158 | 2,192 | 2,349 | 2,605 | 2,822 | 2,862 | 2,816 | 2,593 | 2,384 | 2,072 |
| Chemical | 339 | 296 | 313 | 302 | 293 | 293 | 332 | 297 | 296 | 281 |
| Civil | 188 | 192 | 195 | 237 | 257 | 258 | 269 | 239 | 250 | 212 |
| Electrical | 638 | 652 | 715 | 811 | 851 | 822 | 832 | 713 | 682 | 553 |
| Mechanical | 322 | 401 | 398 | 484 | 514 | 528 | 482 | 466 | 401 | 339 |
| Other engineering | 671 | 651 | 728 | 771 | 907 | 961 | 901 | 878 | 755 | 687 |
| Sciences, total | 8,159 | 8,173 | 8,200 | 9,088 | 9,262 | 8,813 | 8,590 | 8,489 | 8,058 | 7,878 |
| Physical sciences, total | 1,846 | 1,843 | 1,809 | 2,164 | 2,133 | 1,959 | 1,910 | 1,849 | 1,718 | 1,537 |
| Astronomy | 79 | 91 | 88 | 91 | 116 | 114 | 132 | 120 | 92 | 104 |
| Chemistry | 1,093 | 1,040 | 999 | 1,152 | 1,087 | 1,023 | 1,008 | 1,003 | 978 | 814 |
| Physics | 663 | 696 | 712 | 907 | 916 | 814 | 759 | 715 | 642 | 605 |
| Other physical sciences | 11 | 16 | 10 | 14 | 14 | 8 | 11 | 11 | 6 | 14 |
| Earth, atmospheric, & ocean sciences | 461 | 394 | 384 | 469 | 450 | 428 | 443 | 391 | 372 | 342 |
| Mathematics | 406 | 390 | 426 | 506 | 588 | 503 | 452 | 471 | 411 | 405 |
| Computer sciences | 357 | 406 | 400 | 449 | 473 | 423 | 421 | 435 | 379 | 372 |
| Biological sciences | 2,135 | 2,130 | 2,168 | 2,345 | 2,470 | 2,424 | 2,335 | 2,386 | 2,254 | 2,276 |
| Agricultural sciences | 483 | 423 | 372 | 456 | 463 | 401 | 396 | 360 | 331 | 336 |
| Psychology | 1,128 | 1,206 | 1,223 | 1,169 | 1,128 | 1,045 | 1,023 | 1,065 | 1,054 | 1,046 |
| Social sciences | 1,343 | 1,381 | 1,418 | 1,530 | 1,557 | 1,630 | 1,610 | 1,532 | 1,539 | 1,564 |
| Non-S&E, total | 5,295 | 5,447 | 5,439 | 5,679 | 5,791 | 5,517 | 5,506 | 5,479 | 5,308 | 5,299 |
| Health | 252 | 226 | 260 | 328 | 325 | 293 | 288 | 310 | 324 | 341 |
| Humanities[1] | 1,703 | 1,832 | 1,815 | 1,978 | 2,075 | 2,000 | 2,202 | 2,220 | 2,196 | 2,211 |
| Education | 2,347 | 2,347 | 2,378 | 2,307 | 2,243 | 2,238 | 2,059 | 2,056 | 1,949 | 1,919 |
| Professional/other | 993 | 1,042 | 986 | 1,066 | 1,148 | 986 | 957 | 893 | 839 | 828 |
| Grand total, all fields | 15,612 | 15,812 | 15,988 | 17,372 | 17,875 | 17,192 | 16,912 | 16,561 | 15,750 | 15,249 |

See explanatory information, if any, and SOURCE at end of table.

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000



| Field of study | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|---|---|---|---|---|---|---|---|---|---|
| | U.S. citizens or permanent residents, men, American Indian/Alaskan Native | | | | | | | | | |
| Science and engineering, total | 37 | 42 | 25 | 40 | 42 | 62 | 45 | 54 | 60 | 43 |
| Engineering, total | 4 | 8 | 2 | 4 | 9 | 13 | 14 | 9 | 10 | 4 |
| Chemical | 0 | 1 | 1 | 1 | 2 | 1 | 3 | 0 | 1 | 0 |
| Civil | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 |
| Electrical | 1 | 3 | 0 | 1 | 1 | 1 | 5 | 3 | 1 | 0 |
| Mechanical | 1 | 1 | 0 | 0 | 2 | 4 | 5 | 2 | 2 | 2 |
| Other engineering | 1 | 3 | 1 | 2 | 4 | 6 | 0 | 4 | 5 | 2 |
| Sciences, total | 33 | 34 | 23 | 36 | 33 | 49 | 31 | 45 | 50 | 39 |
| Physical sciences, total | 8 | 10 | 3 | 5 | 5 | 5 | 10 | 9 | 7 | 7 |
| Astronomy | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 0 |
| Chemistry | 7 | 4 | 1 | 4 | 3 | 3 | 6 | 6 | 3 | 6 |
| Physics | 1 | 6 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 1 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| Earth, atmospheric, & ocean sciences | 2 | 1 | 4 | 1 | 0 | 2 | 1 | 2 | 3 | 4 |
| Mathematics | 0 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| Computer sciences | 1 | 2 | 0 | 0 | 0 | 2 | 0 | 3 | 0 | 1 |
| Biological sciences | 6 | 8 | 5 | 11 | 10 | 11 | 4 | 6 | 10 | 10 |
| Agricultural sciences | 4 | 0 | 1 | 1 | 2 | 2 | 5 | 7 | 1 | 3 |
| Psychology | 5 | 6 | 6 | 5 | 6 | 9 | 6 | 13 | 12 | 3 |
| Social sciences | 7 | 6 | 3 | 11 | 9 | 17 | 4 | 4 | 16 | 10 |
| Non-S&E, total | 37 | 40 | 35 | 31 | 38 | 41 | 33 | 50 | 37 | 33 |
| Health | 3 | 3 | 0 | 1 | 2 | 1 | 2 | 1 | 0 | 1 |
| Humanities[1] | 3 | 12 | 7 | 12 | 10 | 10 | 8 | 14 | 11 | 11 |
| Education | 29 | 20 | 21 | 10 | 17 | 22 | 18 | 26 | 19 | 17 |
| Professional/other | 2 | 5 | 7 | 8 | 9 | 8 | 5 | 9 | 7 | 4 |
| Grand total, all fields | 74 | 82 | 60 | 71 | 80 | 103 | 78 | 104 | 97 | 76 |
| | U.S. citizens or permanent residents, men, Asian/Pacific Islander | | | | | | | | | |
| Science and engineering, total | 806 | 927 | 1,079 | 2,169 | 2,554 | 2,112 | 1,644 | 1,379 | 1,225 | 1,046 |
| Engineering, total | 356 | 390 | 466 | 748 | 863 | 763 | 588 | 458 | 430 | 338 |
| Chemical | 41 | 38 | 55 | 71 | 76 | 62 | 61 | 46 | 44 | 49 |
| Civil | 26 | 32 | 39 | 65 | 77 | 75 | 58 | 32 | 41 | 36 |
| Electrical | 135 | 154 | 174 | 273 | 276 | 246 | 217 | 175 | 147 | 108 |
| Mechanical | 59 | 74 | 90 | 155 | 166 | 149 | 97 | 79 | 77 | 57 |
| Other engineering | 95 | 92 | 108 | 184 | 268 | 231 | 155 | 126 | 121 | 88 |
| Sciences, total | 450 | 537 | 613 | 1,421 | 1,691 | 1,349 | 1,056 | 921 | 795 | 708 |
| Physical sciences, total | 124 | 147 | 168 | 422 | 540 | 358 | 269 | 231 | 162 | 132 |
| Astronomy | 0 | 2 | 2 | 9 | 18 | 8 | 7 | 10 | 3 | 9 |
| Chemistry | 86 | 79 | 85 | 203 | 270 | 187 | 142 | 134 | 105 | 66 |
| Physics | 38 | 66 | 80 | 208 | 251 | 162 | 120 | 86 | 54 | 57 |
| Other physical sciences | 0 | 0 | 1 | 2 | 1 | 1 | 0 | 1 | 0 | 0 |
| Earth, atmospheric, & ocean sciences | 11 | 19 | 14 | 72 | 76 | 65 | 52 | 32 | 28 | 17 |
| Mathematics | 39 | 33 | 43 | 116 | 158 | 104 | 69 | 44 | 36 | 49 |
| Computer sciences | 51 | 74 | 58 | 101 | 107 | 95 | 82 | 68 | 67 | 62 |
| Biological sciences | 132 | 136 | 198 | 451 | 513 | 483 | 373 | 367 | 335 | 282 |
| Agricultural sciences | 16 | 25 | 20 | 52 | 62 | 51 | 45 | 29 | 28 | 22 |
| Psychology | 15 | 20 | 22 | 32 | 43 | 31 | 32 | 29 | 34 | 48 |
| Social sciences | 62 | 83 | 90 | 175 | 192 | 162 | 134 | 121 | 105 | 96 |
| Non-S&E, total | 166 | 209 | 208 | 300 | 312 | 290 | 246 | 261 | 259 | 219 |
| Health | 21 | 22 | 22 | 48 | 52 | 47 | 37 | 35 | 38 | 36 |
| Humanities[1] | 39 | 48 | 42 | 84 | 83 | 86 | 73 | 81 | 85 | 67 |
| Education | 45 | 48 | 58 | 66 | 59 | 71 | 52 | 71 | 62 | 53 |
| Professional/other | 61 | 91 | 86 | 102 | 118 | 86 | 84 | 74 | 74 | 63 |
| Grand total, all fields | 972 | 1,136 | 1,287 | 2,469 | 2,866 | 2,402 | 1,890 | 1,640 | 1,484 | 1,265 |

See explanatory information, if any, and SOURCE at end of table.

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000



| Field of study | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|---|---|---|---|---|---|---|---|---|---|
| | U.S. citizens or permanent residents, men, black | | | | | | | | | |
| Science and engineering, total | 270 | 238 | 261 | 284 | 290 | 323 | 332 | 296 | 349 | 324 |
| Engineering, total | 47 | 43 | 39 | 41 | 56 | 55 | 75 | 62 | 73 | 58 |
| Chemical | 7 | 12 | 3 | 4 | 2 | 7 | 10 | 2 | 7 | 3 |
| Civil | 10 | 3 | 3 | 6 | 8 | 7 | 10 | 8 | 4 | 5 |
| Electrical | 14 | 15 | 13 | 14 | 20 | 17 | 27 | 19 | 24 | 19 |
| Mechanical | 2 | 5 | 3 | 6 | 13 | 7 | 11 | 14 | 11 | 13 |
| Other engineering | 14 | 8 | 17 | 11 | 13 | 17 | 17 | 19 | 27 | 18 |
| Sciences, total | 223 | 195 | 222 | 243 | 234 | 268 | 257 | 234 | 276 | 266 |
| Physical sciences, total | 27 | 19 | 31 | 33 | 25 | 47 | 41 | 25 | 37 | 41 |
| Astronomy | 0 | 0 | 2 | 0 | 1 | 0 | 1 | 1 | 0 | 0 |
| Chemistry | 18 | 12 | 22 | 25 | 16 | 35 | 26 | 17 | 33 | 25 |
| Physics | 9 | 6 | 7 | 7 | 8 | 12 | 14 | 7 | 4 | 15 |
| Other physical sciences | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Earth, atmospheric, & ocean sciences | 2 | 5 | 4 | 5 | 3 | 2 | 7 | 6 | 9 | 3 |
| Mathematics | 7 | 4 | 7 | 8 | 4 | 6 | 5 | 9 | 6 | 7 |
| Computer sciences | 4 | 4 | 2 | 8 | 7 | 9 | 3 | 6 | 9 | 13 |
| Biological sciences | 32 | 38 | 43 | 34 | 65 | 58 | 51 | 41 | 50 | 47 |
| Agricultural sciences | 16 | 10 | 12 | 16 | 11 | 25 | 19 | 15 | 16 | 10 |
| Psychology | 44 | 28 | 44 | 46 | 39 | 39 | 43 | 43 | 40 | 45 |
| Social sciences | 91 | 87 | 79 | 93 | 80 | 82 | 88 | 89 | 109 | 100 |
| Non-S&E, total | 282 | 281 | 318 | 269 | 325 | 318 | 309 | 318 | 345 | 326 |
| Health | 17 | 14 | 18 | 11 | 18 | 13 | 15 | 14 | 12 | 14 |
| Humanities[1] | 44 | 47 | 56 | 51 | 53 | 53 | 68 | 69 | 70 | 71 |
| Education | 179 | 174 | 201 | 161 | 204 | 203 | 173 | 192 | 195 | 188 |
| Professional/other | 42 | 46 | 43 | 46 | 50 | 49 | 53 | 43 | 68 | 53 |
| Grand total, all fields | 552 | 519 | 579 | 553 | 615 | 641 | 641 | 614 | 694 | 650 |
| | U.S. citizens or permanent residents, men, Hispanic | | | | | | | | | |
| Science and engineering, total | 307 | 308 | 320 | 318 | 336 | 346 | 392 | 427 | 355 | 370 |
| Engineering, total | 51 | 56 | 54 | 60 | 65 | 82 | 72 | 97 | 59 | 68 |
| Chemical | 7 | 12 | 7 | 7 | 10 | 12 | 3 | 13 | 3 | 14 |
| Civil | 3 | 6 | 10 | 11 | 10 | 6 | 11 | 13 | 6 | 7 |
| Electrical | 16 | 14 | 14 | 21 | 14 | 23 | 19 | 29 | 25 | 21 |
| Mechanical | 7 | 9 | 5 | 7 | 8 | 12 | 12 | 18 | 8 | 11 |
| Other engineering | 18 | 15 | 18 | 14 | 23 | 29 | 27 | 24 | 17 | 15 |
| Sciences, total | 256 | 252 | 266 | 258 | 271 | 264 | 320 | 330 | 296 | 302 |
| Physical sciences, total | 54 | 52 | 59 | 69 | 52 | 54 | 54 | 43 | 40 | 52 |
| Astronomy | 1 | 3 | 2 | 2 | 2 | 1 | 2 | 2 | 0 | 2 |
| Chemistry | 37 | 26 | 33 | 43 | 29 | 28 | 32 | 25 | 25 | 29 |
| Physics | 16 | 23 | 24 | 24 | 21 | 25 | 20 | 16 | 15 | 20 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Earth, atmospheric, & ocean sciences | 14 | 10 | 11 | 6 | 7 | 13 | 11 | 10 | 17 | 15 |
| Mathematics | 5 | 9 | 14 | 10 | 11 | 10 | 14 | 20 | 10 | 7 |
| Computer sciences | 11 | 7 | 6 | 7 | 2 | 9 | 15 | 13 | 11 | 10 |
| Biological sciences | 56 | 59 | 57 | 69 | 79 | 62 | 84 | 89 | 98 | 82 |
| Agricultural sciences | 12 | 14 | 15 | 13 | 16 | 9 | 20 | 22 | 8 | 15 |
| Psychology | 52 | 55 | 45 | 43 | 48 | 53 | 63 | 56 | 56 | 54 |
| Social sciences | 52 | 46 | 59 | 41 | 56 | 54 | 59 | 77 | 56 | 67 |
| Non-S&E, total | 152 | 174 | 197 | 200 | 201 | 214 | 232 | 255 | 212 | 229 |
| Health | 7 | 4 | 8 | 7 | 15 | 16 | 8 | 12 | 15 | 10 |
| Humanities[1] | 64 | 66 | 72 | 79 | 72 | 85 | 107 | 103 | 89 | 98 |
| Education | 65 | 82 | 94 | 82 | 91 | 87 | 93 | 112 | 86 | 99 |
| Professional/other | 16 | 22 | 23 | 32 | 23 | 26 | 24 | 28 | 22 | 22 |
| Grand total, all fields | 459 | 482 | 517 | 518 | 537 | 560 | 624 | 682 | 567 | 599 |

See explanatory information, if any, and SOURCE at end of table.

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000



| Field of study | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|---|---|---|---|---|---|---|---|---|---|
| | U.S. citizens or permanent residents, men, Puerto Rican | | | | | | | | | |
| Science and engineering, total | 52 | 71 | 70 | 72 | 74 | 72 | 100 | 69 | 88 | 74 |
| Engineering, total | 7 | 10 | 8 | 10 | 11 | 17 | 19 | 16 | 15 | 16 |
| Chemical | 1 | 3 | 2 | 2 | 3 | 2 | 1 | 3 | 1 | 3 |
| Civil | 1 | 1 | 0 | 1 | 1 | 1 | 5 | 1 | 1 | 2 |
| Electrical | 0 | 2 | 4 | 3 | 3 | 4 | 3 | 3 | 9 | 6 |
| Mechanical | 2 | 0 | 1 | 1 | 1 | 3 | 6 | 5 | 2 | 2 |
| Other engineering | 3 | 4 | 1 | 3 | 3 | 7 | 4 | 4 | 2 | 3 |
| Sciences, total | 45 | 61 | 62 | 62 | 63 | 55 | 81 | 53 | 73 | 58 |
| Physical sciences, total | 11 | 14 | 12 | 19 | 12 | 8 | 18 | 6 | 13 | 9 |
| Astronomy | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| Chemistry | 9 | 9 | 9 | 13 | 9 | 6 | 11 | 4 | 9 | 8 |
| Physics | 2 | 4 | 3 | 6 | 3 | 2 | 7 | 1 | 4 | 1 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, & ocean sciences | 0 | 3 | 1 | 0 | 1 | 3 | 4 | 2 | 4 | 5 |
| Mathematics | 0 | 1 | 1 | 1 | 0 | 3 | 3 | 4 | 2 | 1 |
| Computer sciences | 3 | 1 | 0 | 4 | 0 | 4 | 6 | 1 | 5 | 4 |
| Biological sciences | 12 | 16 | 16 | 14 | 21 | 12 | 21 | 20 | 24 | 11 |
| Agricultural sciences | 0 | 3 | 7 | 2 | 3 | 3 | 4 | 2 | 0 | 3 |
| Psychology | 6 | 16 | 13 | 13 | 13 | 15 | 20 | 12 | 16 | 12 |
| Social sciences | 13 | 7 | 12 | 9 | 13 | 7 | 5 | 6 | 9 | 13 |
| Non-S&E, total | 32 | 39 | 51 | 51 | 46 | 40 | 55 | 59 | 52 | 50 |
| Health | 2 | 3 | 0 | 2 | 7 | 2 | 3 | 3 | 5 | 3 |
| Humanities[1] | 11 | 10 | 18 | 16 | 14 | 16 | 26 | 20 | 14 | 19 |
| Education | 16 | 23 | 25 | 23 | 19 | 17 | 21 | 28 | 23 | 23 |
| Professional/other | 3 | 3 | 8 | 10 | 6 | 5 | 5 | 8 | 10 | 5 |
| Grand total, all fields | 84 | 110 | 121 | 123 | 120 | 112 | 155 | 128 | 140 | 124 |
| | U.S. citizens or permanent residents, men, Mexican American | | | | | | | | | |
| Science and engineering, total | 84 | 79 | 73 | 87 | 89 | 91 | 91 | 136 | 90 | 125 |
| Engineering, total | 12 | 10 | 10 | 13 | 18 | 23 | 11 | 27 | 9 | 22 |
| Chemical | 3 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 0 | 3 |
| Civil | 2 | 2 | 0 | 2 | 7 | 2 | 1 | 4 | 1 | 3 |
| Electrical | 3 | 3 | 2 | 4 | 3 | 8 | 2 | 7 | 3 | 4 |
| Mechanical | 2 | 2 | 0 | 2 | 2 | 3 | 3 | 3 | 1 | 6 |
| Other engineering | 2 | 2 | 7 | 4 | 4 | 8 | 4 | 12 | 4 | 6 |
| Sciences, total | 72 | 69 | 63 | 74 | 71 | 68 | 80 | 109 | 81 | 103 |
| Physical sciences, total | 12 | 7 | 9 | 20 | 9 | 19 | 13 | 18 | 11 | 20 |
| Astronomy | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| Chemistry | 10 | 4 | 6 | 16 | 6 | 12 | 7 | 12 | 5 | 14 |
| Physics | 2 | 3 | 3 | 3 | 3 | 6 | 6 | 5 | 6 | 5 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, & ocean sciences | 4 | 5 | 2 | 4 | 3 | 3 | 2 | 4 | 4 | 4 |
| Mathematics | 1 | 4 | 3 | 3 | 4 | 1 | 2 | 3 | 5 | 4 |
| Computer sciences | 0 | 3 | 1 | 2 | 1 | 1 | 2 | 3 | 1 | 3 |
| Biological sciences | 19 | 11 | 13 | 17 | 16 | 16 | 22 | 32 | 25 | 27 |
| Agricultural sciences | 4 | 4 | 3 | 4 | 3 | 1 | 2 | 7 | 3 | 4 |
| Psychology | 20 | 19 | 16 | 17 | 15 | 18 | 20 | 18 | 16 | 21 |
| Social sciences | 12 | 16 | 16 | 7 | 20 | 9 | 17 | 24 | 16 | 20 |
| Non-S&E, total | 48 | 46 | 59 | 74 | 70 | 71 | 70 | 83 | 70 | 82 |
| Health | 0 | 0 | 3 | 2 | 3 | 2 | 0 | 1 | 5 | 2 |
| Humanities[1] | 14 | 14 | 19 | 23 | 21 | 21 | 22 | 33 | 26 | 26 |
| Education | 28 | 26 | 30 | 38 | 42 | 38 | 42 | 44 | 34 | 47 |
| Professional/other | 6 | 6 | 7 | 11 | 4 | 10 | 6 | 5 | 5 | 7 |
| Grand total, all fields | 132 | 125 | 132 | 161 | 159 | 162 | 161 | 219 | 160 | 207 |

See explanatory information, if any, and SOURCE at end of table.

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000



| Field of study | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|---|---|---|---|---|---|---|---|---|---|
| | U.S. citizens or permanent residents, men, other Hispanic | | | | | | | | | |
| Science and engineering, total | 171 | 158 | 177 | 159 | 173 | 183 | 201 | 222 | 177 | 171 |
| Engineering, total | 32 | 36 | 36 | 37 | 36 | 42 | 42 | 54 | 35 | 30 |
| Chemical | 3 | 8 | 4 | 4 | 5 | 8 | 1 | 9 | 2 | 8 |
| Civil | 0 | 3 | 10 | 8 | 2 | 3 | 5 | 8 | 4 | 2 |
| Electrical | 13 | 9 | 8 | 14 | 8 | 11 | 14 | 19 | 13 | 11 |
| Mechanical | 3 | 7 | 4 | 4 | 5 | 6 | 3 | 10 | 5 | 3 |
| Other engineering | 13 | 9 | 10 | 7 | 16 | 14 | 19 | 8 | 11 | 6 |
| Sciences, total | 139 | 122 | 141 | 122 | 137 | 141 | 159 | 168 | 142 | 141 |
| Physical sciences, total | 31 | 31 | 38 | 30 | 31 | 27 | 23 | 19 | 16 | 23 |
| Astronomy | 1 | 2 | 2 | 1 | 2 | 0 | 2 | 0 | 0 | 1 |
| Chemistry | 18 | 13 | 18 | 14 | 14 | 10 | 14 | 9 | 11 | 7 |
| Physics | 12 | 16 | 18 | 15 | 15 | 17 | 7 | 10 | 5 | 14 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Earth, atmospheric, & ocean sciences | 10 | 2 | 8 | 2 | 3 | 7 | 5 | 4 | 9 | 6 |
| Mathematics | 4 | 4 | 10 | 6 | 7 | 6 | 9 | 13 | 3 | 2 |
| Computer sciences | 8 | 3 | 5 | 1 | 1 | 4 | 7 | 9 | 5 | 3 |
| Biological sciences | 25 | 32 | 28 | 38 | 42 | 34 | 41 | 37 | 49 | 44 |
| Agricultural sciences | 8 | 7 | 5 | 7 | 10 | 5 | 14 | 13 | 5 | 8 |
| Psychology | 26 | 20 | 16 | 13 | 20 | 20 | 23 | 26 | 24 | 21 |
| Social sciences | 27 | 23 | 31 | 25 | 23 | 38 | 37 | 47 | 31 | 34 |
| Non-S&E, total | 72 | 89 | 87 | 75 | 85 | 103 | 107 | 113 | 90 | 97 |
| Health | 5 | 1 | 5 | 3 | 5 | 12 | 5 | 8 | 5 | 5 |
| Humanities[1] | 39 | 42 | 35 | 40 | 37 | 48 | 59 | 50 | 49 | 53 |
| Education | 21 | 33 | 39 | 21 | 30 | 32 | 30 | 40 | 29 | 29 |
| Professional/other | 7 | 13 | 8 | 11 | 13 | 11 | 13 | 15 | 7 | 10 |
| Grand total, all fields | 243 | 247 | 264 | 234 | 258 | 286 | 308 | 335 | 267 | 268 |
| | U.S. citizens or permanent residents, men, white | | | | | | | | | |
| Science and engineering, total | 8,585 | 8,624 | 8,725 | 8,732 | 8,683 | 8,652 | 8,560 | 8,519 | 8,232 | 7,909 |
| Engineering, total | 1,602 | 1,640 | 1,764 | 1,715 | 1,772 | 1,915 | 1,955 | 1,864 | 1,751 | 1,549 |
| Chemical | 277 | 225 | 244 | 211 | 197 | 206 | 242 | 224 | 236 | 212 |
| Civil | 143 | 147 | 143 | 153 | 160 | 168 | 180 | 171 | 194 | 159 |
| Electrical | 444 | 447 | 504 | 494 | 523 | 522 | 524 | 470 | 465 | 389 |
| Mechanical | 236 | 307 | 296 | 311 | 314 | 353 | 343 | 334 | 289 | 243 |
| Other engineering | 502 | 514 | 577 | 546 | 578 | 666 | 666 | 665 | 567 | 546 |
| Sciences, total | 6,983 | 6,984 | 6,961 | 7,017 | 6,911 | 6,737 | 6,605 | 6,655 | 6,481 | 6,360 |
| Physical sciences, total | 1,586 | 1,575 | 1,523 | 1,617 | 1,476 | 1,456 | 1,471 | 1,464 | 1,438 | 1,265 |
| Astronomy | 77 | 84 | 79 | 78 | 92 | 101 | 110 | 96 | 87 | 89 |
| Chemistry | 926 | 902 | 846 | 872 | 760 | 755 | 773 | 784 | 795 | 661 |
| Physics | 573 | 575 | 590 | 656 | 613 | 593 | 578 | 575 | 550 | 503 |
| Other physical sciences | 10 | 14 | 8 | 11 | 11 | 7 | 10 | 9 | 6 | 12 |
| Earth, atmospheric, & ocean sciences | 415 | 353 | 345 | 381 | 356 | 340 | 358 | 324 | 306 | 292 |
| Mathematics | 335 | 332 | 352 | 361 | 409 | 374 | 344 | 376 | 347 | 334 |
| Computer sciences | 282 | 309 | 327 | 326 | 348 | 295 | 295 | 327 | 278 | 275 |
| Biological sciences | 1,871 | 1,847 | 1,835 | 1,758 | 1,773 | 1,774 | 1,759 | 1,811 | 1,723 | 1,794 |
| Agricultural sciences | 422 | 364 | 323 | 367 | 369 | 307 | 293 | 278 | 274 | 277 |
| Psychology | 991 | 1,078 | 1,096 | 1,029 | 983 | 907 | 832 | 887 | 905 | 877 |
| Social sciences | 1,081 | 1,126 | 1,160 | 1,178 | 1,197 | 1,284 | 1,253 | 1,188 | 1,210 | 1,246 |
| Non-S&E, total | 4,569 | 4,656 | 4,623 | 4,827 | 4,851 | 4,581 | 4,434 | 4,378 | 4,364 | 4,365 |
| Health | 199 | 177 | 208 | 258 | 234 | 212 | 219 | 235 | 255 | 271 |
| Humanities[1] | 1,516 | 1,629 | 1,606 | 1,727 | 1,820 | 1,735 | 1,848 | 1,854 | 1,902 | 1,895 |
| Education | 2,002 | 1,997 | 1,992 | 1,968 | 1,858 | 1,832 | 1,618 | 1,588 | 1,558 | 1,531 |
| Professional/other | 852 | 853 | 817 | 874 | 939 | 802 | 749 | 701 | 649 | 668 |
| Grand total, all fields | 13,154 | 13,280 | 13,348 | 13,559 | 13,534 | 13,233 | 12,994 | 12,897 | 12,596 | 12,274 |

See explanatory information, if any, and SOURCE at end of table.

BEST COPY AVAILABLE

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000



| Field of study | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|---|---|---|---|---|---|---|---|---|---|
| | U.S. citizens or permanent residents, women | | | | | | | | | |
| Science and engineering, total | 5,597 | 5,577 | 6,024 | 6,494 | 6,912 | 6,963 | 6,993 | 7,163 | 7,010 | 7,114 |
| Engineering, total | 316 | 328 | 348 | 448 | 520 | 525 | 513 | 451 | 492 | 484 |
| Chemical | 60 | 82 | 64 | 78 | 88 | 98 | 77 | 76 | 75 | 99 |
| Civil | 25 | 23 | 32 | 55 | 52 | 47 | 58 | 58 | 61 | 48 |
| Electrical | 48 | 67 | 80 | 88 | 120 | 106 | 106 | 91 | 82 | 90 |
| Mechanical | 37 | 25 | 36 | 54 | 49 | 60 | 55 | 50 | 60 | 56 |
| Other engineering | 146 | 131 | 136 | 173 | 211 | 214 | 217 | 176 | 214 | 191 |
| Sciences, total | 5,281 | 5,249 | 5,676 | 6,046 | 6,392 | 6,438 | 6,480 | 6,712 | 6,518 | 6,630 |
| Physical sciences, total | 454 | 514 | 521 | 625 | 708 | 610 | 587 | 603 | 553 | 547 |
| Astronomy | 7 | 15 | 23 | 21 | 25 | 35 | 26 | 27 | 25 | 36 |
| Chemistry | 368 | 401 | 401 | 464 | 537 | 439 | 431 | 462 | 426 | 422 |
| Physics | 76 | 94 | 94 | 137 | 143 | 134 | 124 | 107 | 96 | 83 |
| Other physical sciences | 3 | 4 | 3 | 3 | 3 | 2 | 6 | 7 | 6 | 6 |
| Earth, atmospheric, & ocean sciences | 157 | 147 | 120 | 144 | 144 | 130 | 164 | 171 | 151 | 167 |
| Mathematics | 112 | 117 | 164 | 151 | 183 | 145 | 177 | 198 | 192 | 163 |
| Computer sciences | 94 | 83 | 109 | 94 | 143 | 91 | 100 | 123 | 104 | 86 |
| Biological sciences | 1,390 | 1,438 | 1,584 | 1,743 | 1,859 | 1,941 | 1,919 | 1,918 | 1,859 | 1,984 |
| Agricultural sciences | 137 | 150 | 134 | 160 | 135 | 175 | 155 | 183 | 160 | 165 |
| Psychology | 1,890 | 1,780 | 1,938 | 1,967 | 2,056 | 2,183 | 2,112 | 2,209 | 2,184 | 2,175 |
| Social sciences | 1,047 | 1,020 | 1,106 | 1,162 | 1,164 | 1,163 | 1,266 | 1,307 | 1,315 | 1,343 |
| Non-S&E, total | 6,221 | 6,601 | 6,695 | 7,028 | 7,271 | 7,362 | 7,176 | 7,410 | 7,182 | 7,474 |
| Health | 587 | 629 | 679 | 722 | 719 | 723 | 739 | 843 | 715 | 847 |
| Humanities[1] | 1,491 | 1,608 | 1,696 | 1,788 | 1,980 | 2,045 | 2,032 | 2,104 | 2,078 | 2,172 |
| Education | 3,441 | 3,670 | 3,590 | 3,756 | 3,752 | 3,824 | 3,686 | 3,684 | 3,668 | 3,737 |
| Professional/other | 702 | 694 | 730 | 762 | 820 | 770 | 719 | 779 | 721 | 718 |
| Grand total, all fields | 11,818 | 12,178 | 12,719 | 13,522 | 14,183 | 14,325 | 14,169 | 14,573 | 14,192 | 14,588 |
| | U.S. citizens or permanent residents, women, American Indian/Alaskan Native | | | | | | | | | |
| Science and engineering, total | 19 | 27 | 18 | 24 | 26 | 35 | 34 | 42 | 56 | 45 |
| Engineering, total | 2 | 3 | 0 | 2 | 0 | 2 | 3 | 4 | 2 | 4 |
| Chemical | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 1 | 1 |
| Civil | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 |
| Electrical | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Mechanical | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| Other engineering | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 1 |
| Sciences, total | 17 | 24 | 18 | 22 | 26 | 33 | 31 | 38 | 54 | 41 |
| Physical sciences, total | 2 | 2 | 2 | 1 | 2 | 1 | 0 | 1 | 3 | 2 |
| Astronomy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Chemistry | 2 | 2 | 1 | 0 | 2 | 1 | 0 | 1 | 2 | 1 |
| Physics | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, & ocean sciences | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 1 |
| Mathematics | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 1 |
| Computer sciences | 0 | 0 | 1 | 1 | 0 | 2 | 1 | 0 | 1 | 0 |
| Biological sciences | 4 | 5 | 2 | 5 | 5 | 9 | 3 | 6 | 10 | 7 |
| Agricultural sciences | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 2 | 1 | 1 |
| Psychology | 8 | 9 | 9 | 7 | 8 | 9 | 12 | 18 | 23 | 19 |
| Social sciences | 2 | 7 | 4 | 8 | 10 | 8 | 14 | 8 | 13 | 10 |
| Non-S&E, total | 39 | 40 | 42 | 48 | 42 | 50 | 54 | 43 | 64 | 48 |
| Health | 2 | 2 | 6 | 5 | 7 | 3 | 4 | 3 | 6 | 3 |
| Humanities[1] | 7 | 6 | 3 | 8 | 8 | 8 | 11 | 7 | 10 | 9 |
| Education | 27 | 30 | 30 | 27 | 24 | 38 | 33 | 24 | 40 | 34 |
| Professional/other | 3 | 2 | 3 | 8 | 3 | 1 | 6 | 9 | 8 | 2 |
| Grand total, all fields | 58 | 67 | 60 | 72 | 68 | 85 | 88 | 85 | 120 | 93 |

See explanatory information, if any, and SOURCE at end of table.

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000



| Field of study | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|---|---|---|---|---|---|---|---|---|---|
| | U.S. citizens or permanent residents, women, Asian/Pacific Islander | | | | | | | | | |
| Science and engineering, total | 374 | 418 | 531 | 820 | 1,115 | 983 | 894 | 764 | 724 | 690 |
| Engineering, total | 49 | 61 | 61 | 119 | 170 | 134 | 119 | 98 | 86 | 109 |
| Chemical | 9 | 16 | 7 | 25 | 25 | 18 | 12 | 19 | 14 | 22 |
| Civil | 4 | 2 | 2 | 4 | 14 | 14 | 14 | 6 | 5 | 10 |
| Electrical | 5 | 21 | 25 | 31 | 46 | 30 | 39 | 31 | 26 | 33 |
| Mechanical | 3 | 4 | 3 | 24 | 23 | 17 | 16 | 11 | 13 | 16 |
| Other engineering | 28 | 18 | 24 | 35 | 62 | 55 | 38 | 31 | 28 | 28 |
| Sciences, total | 325 | 357 | 470 | 701 | 945 | 849 | 775 | 666 | 638 | 581 |
| Physical sciences, total | 48 | 80 | 97 | 178 | 211 | 145 | 133 | 102 | 95 | 71 |
| Astronomy | 0 | 2 | 2 | 1 | 4 | 4 | 1 | 3 | 0 | 4 |
| Chemistry | 36 | 56 | 72 | 129 | 146 | 108 | 93 | 72 | 82 | 54 |
| Physics | 12 | 22 | 23 | 47 | 61 | 33 | 38 | 27 | 13 | 12 |
| Other physical sciences | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 |
| Earth, atmospheric, & ocean sciences | 6 | 8 | 8 | 17 | 28 | 12 | 20 | 19 | 11 | 12 |
| Mathematics | 18 | 19 | 36 | 26 | 50 | 36 | 28 | 27 | 22 | 21 |
| Computer sciences | 15 | 12 | 19 | 16 | 30 | 16 | 26 | 23 | 19 | 15 |
| Biological sciences | 129 | 133 | 172 | 269 | 411 | 407 | 350 | 291 | 282 | 268 |
| Agricultural sciences | 8 | 12 | 9 | 20 | 16 | 30 | 18 | 18 | 17 | 9 |
| Psychology | 44 | 39 | 51 | 77 | 79 | 93 | 95 | 85 | 95 | 101 |
| Social sciences | 57 | 54 | 78 | 98 | 120 | 110 | 105 | 101 | 97 | 84 |
| Non-S&E, total | 185 | 210 | 199 | 257 | 328 | 314 | 336 | 318 | 307 | 360 |
| Health | 23 | 30 | 23 | 46 | 41 | 40 | 50 | 50 | 47 | 63 |
| Humanities[1] | 42 | 51 | 66 | 67 | 111 | 105 | 107 | 113 | 112 | 118 |
| Education | 85 | 96 | 86 | 107 | 120 | 114 | 129 | 108 | 106 | 121 |
| Professional/other | 35 | 33 | 24 | 37 | 56 | 55 | 50 | 47 | 42 | 58 |
| Grand total, all fields | 559 | 628 | 730 | 1,077 | 1,443 | 1,297 | 1,230 | 1,082 | 1,031 | 1,050 |
| | U.S. citizens or permanent residents, women, black | | | | | | | | | |
| Science and engineering, total | 194 | 170 | 208 | 216 | 270 | 253 | 291 | 350 | 367 | 404 |
| Engineering, total | 8 | 6 | 11 | 13 | 15 | 19 | 23 | 22 | 24 | 25 |
| Chemical | 1 | 1 | 3 | 4 | 1 | 5 | 6 | 1 | 4 | 6 |
| Civil | 2 | 0 | 2 | 2 | 3 | 1 | 0 | 2 | 2 | 1 |
| Electrical | 2 | 2 | 2 | 3 | 4 | 5 | 4 | 4 | 5 | 2 |
| Mechanical | 1 | 0 | 0 | 1 | 1 | 3 | 1 | 0 | 1 | 5 |
| Other engineering | 2 | 3 | 4 | 3 | 6 | 5 | 12 | 15 | 12 | 11 |
| Sciences, total | 186 | 164 | 197 | 203 | 255 | 234 | 268 | 328 | 343 | 379 |
| Physical sciences, total | 5 | 6 | 10 | 13 | 18 | 13 | 11 | 31 | 29 | 21 |
| Astronomy | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 1 |
| Chemistry | 5 | 5 | 9 | 9 | 17 | 10 | 9 | 28 | 23 | 19 |
| Physics | 0 | 0 | 0 | 4 | 1 | 3 | 1 | 3 | 4 | 1 |
| Other physical sciences | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, & ocean sciences | 1 | 1 | 0 | 1 | 0 | 2 | 1 | 3 | 5 | 4 |
| Mathematics | 4 | 0 | 1 | 3 | 1 | 2 | 2 | 7 | 6 | 7 |
| Computer sciences | 4 | 1 | 4 | 2 | 4 | 3 | 1 | 8 | 9 | 5 |
| Biological sciences | 32 | 24 | 32 | 45 | 43 | 40 | 60 | 69 | 66 | 76 |
| Agricultural sciences | 1 | 4 | 4 | 6 | 6 | 0 | 6 | 4 | 8 | 8 |
| Psychology | 86 | 78 | 75 | 78 | 112 | 115 | 113 | 113 | 133 | 148 |
| Social sciences | 53 | 50 | 71 | 55 | 71 | 59 | 74 | 93 | 87 | 110 |
| Non-S&E, total | 420 | 427 | 493 | 510 | 590 | 562 | 556 | 638 | 667 | 721 |
| Health | 23 | 24 | 41 | 35 | 42 | 36 | 40 | 51 | 44 | 61 |
| Humanities[1] | 48 | 43 | 42 | 55 | 61 | 66 | 74 | 72 | 97 | 90 |
| Education | 293 | 327 | 356 | 360 | 423 | 405 | 385 | 459 | 457 | 511 |
| Professional/other | 56 | 33 | 54 | 60 | 64 | 55 | 57 | 56 | 69 | 59 |
| Grand total, all fields | 614 | 597 | 701 | 726 | 860 | 815 | 847 | 988 | 1,034 | 1,125 |

See explanatory information, if any, and SOURCE at end of table.

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000



| Field of study | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|---|---|---|---|---|---|---|---|---|---|
| | U.S. citizens or permanent residents, women, Hispanic | | | | | | | | | |
| Science and engineering, total | 186 | 205 | 222 | 230 | 227 | 272 | 264 | 326 | 355 | 334 |
| Engineering, total | 10 | 15 | 12 | 6 | 11 | 15 | 23 | 13 | 23 | 12 |
| Chemical | 4 | 4 | 3 | 0 | 2 | 6 | 3 | 0 | 4 | 3 |
| Civil | 2 | 1 | 2 | 3 | 1 | 0 | 1 | 3 | 6 | 1 |
| Electrical | 0 | 3 | 3 | 0 | 1 | 4 | 6 | 2 | 4 | 1 |
| Mechanical | 2 | 2 | 0 | 1 | 0 | 0 | 3 | 1 | 1 | 1 |
| Other engineering | 2 | 5 | 4 | 2 | 7 | 5 | 10 | 7 | 8 | 6 |
| Sciences, total | 176 | 190 | 210 | 224 | 216 | 257 | 241 | 313 | 332 | 322 |
| Physical sciences, total | 11 | 20 | 20 | 21 | 21 | 12 | 15 | 11 | 22 | 25 |
| Astronomy | 0 | 1 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 1 |
| Chemistry | 9 | 16 | 18 | 16 | 14 | 7 | 12 | 9 | 21 | 21 |
| Physics | 2 | 3 | 2 | 5 | 5 | 4 | 2 | 2 | 1 | 3 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, & ocean sciences | 2 | 6 | 2 | 2 | 6 | 6 | 5 | 6 | 4 | 3 |
| Mathematics | 4 | 3 | 2 | 3 | 4 | 0 | 6 | 7 | 5 | 7 |
| Computer sciences | 1 | 1 | 1 | 0 | 4 | 7 | 2 | 1 | 3 | 3 |
| Biological sciences | 39 | 43 | 57 | 62 | 46 | 66 | 62 | 79 | 75 | 91 |
| Agricultural sciences | 3 | 4 | 5 | 12 | 5 | 3 | 7 | 13 | 7 | 11 |
| Psychology | 70 | 78 | 86 | 90 | 97 | 120 | 107 | 152 | 152 | 140 |
| Social sciences | 46 | 35 | 37 | 34 | 33 | 43 | 37 | 44 | 64 | 42 |
| Non-S&E, total | 223 | 222 | 233 | 282 | 290 | 271 | 305 | 316 | 368 | 346 |
| Health | 9 | 9 | 16 | 18 | 15 | 22 | 24 | 25 | 31 | 24 |
| Humanities[1] | 72 | 63 | 72 | 89 | 82 | 93 | 100 | 94 | 105 | 110 |
| Education | 124 | 132 | 128 | 159 | 167 | 129 | 162 | 177 | 199 | 182 |
| Professional/other | 18 | 18 | 17 | 16 | 26 | 27 | 19 | 20 | 33 | 30 |
| Grand total, all fields | 409 | 427 | 455 | 512 | 517 | 543 | 569 | 642 | 723 | 680 |
| | U.S. citizens or permanent residents, women, Puerto Rican | | | | | | | | | |
| Science and engineering, total | 47 | 49 | 42 | 59 | 63 | 68 | 73 | 104 | 95 | 94 |
| Engineering, total | 2 | 3 | 2 | 0 | 2 | 5 | 4 | 1 | 8 | 4 |
| Chemical | 1 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 1 | 2 |
| Civil | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Electrical | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 2 | 0 |
| Mechanical | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other engineering | 1 | 1 | 0 | 0 | 1 | 3 | 3 | 1 | 4 | 2 |
| Sciences, total | 45 | 46 | 40 | 59 | 61 | 63 | 69 | 103 | 87 | 90 |
| Physical sciences, total | 6 | 6 | 5 | 7 | 9 | 4 | 2 | 5 | 9 | 10 |
| Astronomy | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Chemistry | 5 | 5 | 5 | 6 | 8 | 3 | 2 | 5 | 9 | 10 |
| Physics | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, & ocean sciences | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 3 | 1 | 0 |
| Mathematics | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 3 | 0 | 1 |
| Computer sciences | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 0 |
| Biological sciences | 11 | 11 | 11 | 14 | 9 | 18 | 16 | 23 | 23 | 22 |
| Agricultural sciences | 0 | 0 | 3 | 3 | 0 | 1 | 1 | 1 | 1 | 3 |
| Psychology | 14 | 19 | 11 | 30 | 31 | 33 | 36 | 59 | 40 | 48 |
| Social sciences | 14 | 9 | 9 | 5 | 10 | 6 | 11 | 8 | 12 | 6 |
| Non-S&E, total | 60 | 70 | 69 | 75 | 86 | 69 | 86 | 76 | 98 | 89 |
| Health | 1 | 1 | 3 | 4 | 5 | 5 | 7 | 4 | 6 | 6 |
| Humanities[1] | 19 | 12 | 18 | 22 | 16 | 22 | 23 | 17 | 17 | 25 |
| Education | 36 | 53 | 45 | 45 | 50 | 34 | 50 | 49 | 66 | 48 |
| Professional/other | 4 | 4 | 3 | 4 | 15 | 8 | 6 | 6 | 9 | 10 |
| Grand total, all fields | 107 | 119 | 111 | 134 | 149 | 137 | 159 | 180 | 193 | 183 |

See explanatory information, if any, and SOURCE at end of table.

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000



| Field of study | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|---|---|---|---|---|---|---|---|---|---|
| | U.S. citizens or permanent residents, women, Mexican American | | | | | | | | | |
| Science and engineering, total | 42 | 41 | 49 | 58 | 59 | 53 | 69 | 87 | 73 | 85 |
| Engineering, total | 2 | 0 | 2 | 2 | 1 | 3 | 7 | 3 | 4 | 3 |
| Chemical | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 1 |
| Civil | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 0 |
| Electrical | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 1 | 0 |
| Mechanical | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other engineering | 0 | 0 | 2 | 2 | 0 | 1 | 2 | 2 | 1 | 2 |
| Sciences, total | 40 | 41 | 47 | 56 | 58 | 50 | 62 | 84 | 69 | 82 |
| Physical sciences, total | 3 | 2 | 3 | 4 | 4 | 3 | 2 | 3 | 5 | 3 |
| Astronomy | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Chemistry | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 4 | 3 |
| Physics | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 0 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, & ocean sciences | 0 | 2 | 0 | 0 | 1 | 2 | 1 | 1 | 1 | 1 |
| Mathematics | 2 | 0 | 1 | 1 | 2 | 0 | 1 | 3 | 2 | 4 |
| Computer sciences | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 1 |
| Biological sciences | 7 | 13 | 11 | 13 | 11 | 12 | 22 | 22 | 16 | 19 |
| Agricultural sciences | 1 | 1 | 1 | 2 | 1 | 0 | 0 | 3 | 0 | 2 |
| Psychology | 15 | 18 | 26 | 23 | 33 | 20 | 29 | 35 | 27 | 39 |
| Social sciences | 12 | 5 | 5 | 13 | 4 | 13 | 7 | 17 | 18 | 13 |
| Non-S&E, total | 58 | 53 | 71 | 89 | 70 | 73 | 75 | 116 | 111 | 119 |
| Health | 3 | 5 | 5 | 3 | 5 | 4 | 7 | 14 | 11 | 9 |
| Humanities [1] | 13 | 10 | 16 | 19 | 13 | 20 | 16 | 25 | 20 | 35 |
| Education | 39 | 32 | 44 | 64 | 51 | 41 | 48 | 71 | 67 | 69 |
| Professional/other | 3 | 6 | 6 | 3 | 1 | 8 | 4 | 6 | 13 | 6 |
| Grand total, all fields | 100 | 94 | 120 | 147 | 129 | 126 | 144 | 203 | 184 | 204 |
| | U.S. citizens or permanent residents, women, other Hispanic | | | | | | | | | |
| Science and engineering, total | 97 | 115 | 131 | 113 | 105 | 151 | 122 | 135 | 187 | 155 |
| Engineering, total | 6 | 12 | 8 | 4 | 8 | 7 | 12 | 9 | 11 | 5 |
| Chemical | 2 | 4 | 3 | 0 | 0 | 3 | 2 | 0 | 3 | 0 |
| Civil | 2 | 1 | 1 | 3 | 1 | 0 | 0 | 2 | 3 | 1 |
| Electrical | 0 | 2 | 2 | 0 | 1 | 3 | 2 | 2 | 1 | 1 |
| Mechanical | 1 | 1 | 0 | 1 | 0 | 0 | 3 | 1 | 1 | 1 |
| Other engineering | 1 | 4 | 2 | 0 | 6 | 1 | 5 | 4 | 3 | 2 |
| Sciences, total | 91 | 103 | 123 | 109 | 97 | 144 | 110 | 126 | 176 | 150 |
| Physical sciences, total | 2 | 12 | 12 | 10 | 8 | 5 | 11 | 3 | 8 | 12 |
| Astronomy | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 |
| Chemistry | 2 | 9 | 11 | 7 | 4 | 2 | 8 | 1 | 8 | 8 |
| Physics | 0 | 2 | 1 | 3 | 4 | 2 | 2 | 2 | 0 | 3 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, & ocean sciences | 2 | 4 | 2 | 2 | 4 | 4 | 2 | 2 | 2 | 2 |
| Mathematics | 2 | 2 | 1 | 2 | 1 | 0 | 4 | 1 | 3 | 2 |
| Computer sciences | 1 | 1 | 0 | 0 | 2 | 6 | 2 | 0 | 2 | 2 |
| Biological sciences | 21 | 19 | 35 | 35 | 26 | 36 | 24 | 34 | 36 | 50 |
| Agricultural sciences | 2 | 3 | 1 | 7 | 4 | 2 | 6 | 9 | 6 | 6 |
| Psychology | 41 | 41 | 49 | 37 | 33 | 67 | 42 | 58 | 85 | 53 |
| Social sciences | 20 | 21 | 23 | 16 | 19 | 24 | 19 | 19 | 34 | 23 |
| Non-S&E, total | 105 | 99 | 93 | 118 | 134 | 129 | 144 | 124 | 159 | 138 |
| Health | 5 | 3 | 8 | 11 | 5 | 13 | 10 | 7 | 14 | 9 |
| Humanities [1] | 40 | 41 | 38 | 48 | 53 | 51 | 61 | 52 | 68 | 50 |
| Education | 49 | 47 | 39 | 50 | 66 | 54 | 64 | 57 | 66 | 65 |
| Professional/other | 11 | 8 | 8 | 9 | 10 | 11 | 9 | 8 | 11 | 14 |
| Grand total, all fields | 202 | 214 | 224 | 231 | 239 | 280 | 266 | 259 | 346 | 293 |

See explanatory information, if any, and SOURCE at end of table.

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000



| Field of study | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|---|---|---|---|---|---|---|---|---|---|
| | U.S. citizens or permanent residents, women, white | | | | | | | | | |
| Science and engineering, total | 4,739 | 4,703 | 5,012 | 5,158 | 5,223 | 5,355 | 5,267 | 5,489 | 5,428 | 5,506 |
| Engineering, total | 235 | 240 | 261 | 305 | 321 | 347 | 332 | 306 | 352 | 329 |
| Chemical | 45 | 59 | 51 | 48 | 60 | 69 | 52 | 52 | 50 | 66 |
| Civil | 16 | 19 | 25 | 46 | 34 | 31 | 40 | 45 | 47 | 34 |
| Electrical | 34 | 40 | 49 | 54 | 67 | 66 | 54 | 53 | 45 | 53 |
| Mechanical | 30 | 19 | 32 | 26 | 25 | 39 | 33 | 37 | 45 | 33 |
| Other engineering | 110 | 103 | 104 | 131 | 135 | 142 | 153 | 119 | 165 | 143 |
| Sciences, total | 4,504 | 4,463 | 4,751 | 4,853 | 4,902 | 5,008 | 4,935 | 5,183 | 5,076 | 5,177 |
| Physical sciences, total | 383 | 399 | 388 | 408 | 448 | 431 | 412 | 448 | 396 | 420 |
| Astronomy | 6 | 11 | 21 | 19 | 19 | 30 | 22 | 24 | 22 | 27 |
| Chemistry | 313 | 318 | 299 | 307 | 352 | 308 | 305 | 343 | 293 | 323 |
| Physics | 61 | 66 | 66 | 80 | 74 | 91 | 80 | 74 | 76 | 65 |
| Other physical sciences | 3 | 4 | 2 | 2 | 3 | 2 | 5 | 7 | 5 | 5 |
| Earth, atmospheric, & ocean sciences | 142 | 132 | 110 | 123 | 108 | 109 | 129 | 140 | 125 | 140 |
| Mathematics | 84 | 93 | 124 | 118 | 126 | 105 | 135 | 150 | 158 | 126 |
| Computer sciences | 73 | 69 | 83 | 75 | 104 | 61 | 66 | 84 | 70 | 62 |
| Biological sciences | 1,170 | 1,221 | 1,311 | 1,349 | 1,345 | 1,401 | 1,399 | 1,435 | 1,404 | 1,512 |
| Agricultural sciences | 123 | 129 | 115 | 120 | 104 | 137 | 118 | 140 | 124 | 135 |
| Psychology | 1,661 | 1,558 | 1,711 | 1,701 | 1,744 | 1,837 | 1,691 | 1,763 | 1,763 | 1,724 |
| Social sciences | 868 | 862 | 909 | 959 | 923 | 927 | 985 | 1,023 | 1,036 | 1,058 |
| Non-S&E, total | 5,293 | 5,643 | 5,692 | 5,878 | 5,964 | 6,102 | 5,692 | 5,899 | 5,682 | 5,871 |
| Health | 521 | 558 | 592 | 609 | 602 | 611 | 608 | 695 | 577 | 683 |
| Humanities[1] | 1,305 | 1,432 | 1,503 | 1,556 | 1,701 | 1,752 | 1,677 | 1,751 | 1,717 | 1,803 |
| Education | 2,887 | 3,054 | 2,973 | 3,076 | 2,995 | 3,111 | 2,833 | 2,825 | 2,824 | 2,826 |
| Professional/other | 580 | 599 | 624 | 637 | 666 | 628 | 574 | 628 | 564 | 559 |
| Grand total, all fields | 10,032 | 10,346 | 10,704 | 11,036 | 11,187 | 11,457 | 10,959 | 11,388 | 11,110 | 11,377 |
| | U.S. citizens | | | | | | | | | |
| Science and engineering, total | 14,629 | 14,559 | 14,932 | 15,166 | 15,487 | 15,629 | 16,119 | 16,229 | 15,800 | 15,655 |
| Engineering, total | 2,086 | 2,109 | 2,228 | 2,215 | 2,386 | 2,594 | 2,736 | 2,565 | 2,473 | 2,206 |
| Chemical | 348 | 318 | 324 | 293 | 291 | 318 | 321 | 327 | 333 | 338 |
| Civil | 173 | 164 | 168 | 203 | 206 | 212 | 249 | 246 | 260 | 219 |
| Electrical | 554 | 597 | 630 | 634 | 683 | 707 | 751 | 638 | 637 | 527 |
| Mechanical | 297 | 352 | 347 | 359 | 383 | 436 | 455 | 434 | 396 | 339 |
| Other engineering | 714 | 678 | 759 | 726 | 823 | 921 | 960 | 920 | 847 | 783 |
| Sciences, total | 12,543 | 12,450 | 12,704 | 12,951 | 13,101 | 13,035 | 13,383 | 13,664 | 13,327 | 13,449 |
| Physical sciences, total | 2,120 | 2,157 | 2,093 | 2,198 | 2,137 | 2,076 | 2,131 | 2,139 | 2,029 | 1,885 |
| Astronomy | 84 | 100 | 106 | 103 | 120 | 137 | 151 | 132 | 110 | 128 |
| Chemistry | 1,351 | 1,328 | 1,272 | 1,291 | 1,238 | 1,169 | 1,234 | 1,286 | 1,254 | 1,116 |
| Physics | 671 | 709 | 704 | 789 | 764 | 761 | 731 | 705 | 654 | 622 |
| Other physical sciences | 14 | 20 | 11 | 15 | 15 | 9 | 15 | 16 | 11 | 19 |
| Earth, atmospheric, & ocean sciences | 592 | 506 | 463 | 507 | 478 | 462 | 537 | 500 | 472 | 475 |
| Mathematics | 463 | 454 | 496 | 504 | 554 | 490 | 530 | 576 | 537 | 513 |
| Computer sciences | 388 | 422 | 425 | 426 | 484 | 422 | 430 | 474 | 412 | 387 |
| Biological sciences | 3,314 | 3,328 | 3,449 | 3,422 | 3,494 | 3,547 | 3,670 | 3,753 | 3,649 | 3,895 |
| Agricultural sciences | 564 | 511 | 457 | 519 | 492 | 473 | 468 | 464 | 440 | 446 |
| Psychology | 2,953 | 2,900 | 3,071 | 3,052 | 3,083 | 3,124 | 3,046 | 3,181 | 3,168 | 3,146 |
| Social sciences | 2,149 | 2,172 | 2,250 | 2,323 | 2,379 | 2,441 | 2,571 | 2,577 | 2,620 | 2,702 |
| Non-S&E, total | 10,944 | 11,451 | 11,516 | 11,981 | 12,253 | 12,121 | 12,032 | 12,208 | 11,836 | 12,233 |
| Health | 779 | 809 | 879 | 961 | 938 | 933 | 958 | 1,071 | 962 | 1,113 |
| Humanities[1] | 2,975 | 3,211 | 3,273 | 3,486 | 3,747 | 3,726 | 3,945 | 4,020 | 3,991 | 4,150 |
| Education | 5,614 | 5,852 | 5,791 | 5,864 | 5,777 | 5,866 | 5,580 | 5,569 | 5,439 | 5,532 |
| Professional/other | 1,576 | 1,579 | 1,573 | 1,670 | 1,791 | 1,596 | 1,549 | 1,548 | 1,444 | 1,438 |
| Grand total, all fields | 25,573 | 26,010 | 26,448 | 27,147 | 27,740 | 27,750 | 28,151 | 28,437 | 27,636 | 27,888 |

See explanatory information, if any, and SOURCE at end of table.

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000



| Field of study | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|---|---|---|---|---|---|---|---|---|---|
| | U.S. citizens, American Indian/Alaskan Native | | | | | | | | | |
| Science and engineering, total | 56 | 69 | 43 | 64 | 68 | 96 | 79 | 96 | 116 | 88 |
| Engineering, total | 6 | 11 | 2 | 6 | 9 | 15 | 17 | 13 | 12 | 8 |
| Chemical | 1 | 1 | 1 | 1 | 2 | 1 | 4 | 3 | 2 | 1 |
| Civil | 1 | 1 | 0 | 0 | 0 | 2 | 2 | 0 | 2 | 1 |
| Electrical | 2 | 4 | 0 | 1 | 1 | 2 | 5 | 3 | 1 | 0 |
| Mechanical | 1 | 1 | 0 | 0 | 2 | 4 | 6 | 2 | 2 | 3 |
| Other engineering | 1 | 4 | 1 | 4 | 4 | 6 | 0 | 5 | 5 | 3 |
| Sciences, total | 50 | 58 | 41 | 58 | 59 | 81 | 62 | 83 | 104 | 80 |
| Physical sciences, total | 10 | 12 | 5 | 6 | 7 | 6 | 10 | 10 | 10 | 9 |
| Astronomy | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 2 | 1 |
| Chemistry | 9 | 6 | 2 | 4 | 5 | 4 | 6 | 7 | 5 | 7 |
| Physics | 1 | 6 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 1 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| Earth, atmospheric, & ocean sciences | 3 | 1 | 4 | 1 | 0 | 2 | 2 | 3 | 6 | 5 |
| Mathematics | 0 | 2 | 1 | 2 | 2 | 1 | 1 | 3 | 1 | 2 |
| Computer sciences | 1 | 2 | 1 | 1 | 0 | 4 | 1 | 3 | 1 | 1 |
| Biological sciences | 10 | 13 | 7 | 16 | 15 | 20 | 7 | 12 | 20 | 17 |
| Agricultural sciences | 4 | 0 | 1 | 1 | 2 | 6 | 5 | 9 | 2 | 4 |
| Psychology | 13 | 15 | 15 | 12 | 14 | 18 | 18 | 31 | 35 | 22 |
| Social sciences | 9 | 13 | 7 | 19 | 19 | 24 | 18 | 12 | 29 | 20 |
| Non-S&E, total | 74 | 80 | 77 | 79 | 80 | 91 | 87 | 93 | 101 | 81 |
| Health | 5 | 5 | 6 | 6 | 9 | 4 | 6 | 4 | 6 | 4 |
| Humanities[1] | 10 | 18 | 10 | 20 | 18 | 18 | 19 | 21 | 21 | 20 |
| Education | 55 | 50 | 51 | 37 | 41 | 60 | 51 | 50 | 59 | 51 |
| Professional/other | 4 | 7 | 10 | 16 | 12 | 9 | 11 | 18 | 15 | 6 |
| Grand total, all fields | 130 | 149 | 120 | 143 | 148 | 187 | 166 | 189 | 217 | 169 |
| | U.S. citizens, Asian/Pacific Islander | | | | | | | | | |
| Science and engineering, total | 599 | 651 | 712 | 736 | 894 | 836 | 1,010 | 878 | 1,003 | 1,021 |
| Engineering, total | 187 | 214 | 217 | 202 | 255 | 272 | 290 | 245 | 266 | 247 |
| Chemical | 27 | 25 | 26 | 27 | 27 | 27 | 17 | 36 | 32 | 45 |
| Civil | 11 | 12 | 10 | 7 | 15 | 17 | 13 | 16 | 20 | 20 |
| Electrical | 67 | 95 | 86 | 97 | 92 | 109 | 128 | 87 | 93 | 79 |
| Mechanical | 26 | 35 | 34 | 28 | 38 | 40 | 50 | 36 | 43 | 39 |
| Other engineering | 56 | 47 | 61 | 43 | 83 | 79 | 82 | 70 | 78 | 64 |
| Sciences, total | 412 | 437 | 495 | 534 | 639 | 564 | 720 | 633 | 737 | 774 |
| Physical sciences, total | 86 | 108 | 121 | 122 | 148 | 107 | 153 | 119 | 128 | 103 |
| Astronomy | 0 | 2 | 3 | 4 | 4 | 5 | 6 | 6 | 2 | 8 |
| Chemistry | 63 | 65 | 76 | 70 | 91 | 55 | 83 | 71 | 92 | 48 |
| Physics | 23 | 41 | 42 | 47 | 53 | 47 | 64 | 42 | 34 | 46 |
| Other physical sciences | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Earth, atmospheric, & ocean sciences | 7 | 14 | 6 | 7 | 8 | 8 | 18 | 7 | 15 | 11 |
| Mathematics | 23 | 21 | 28 | 18 | 25 | 23 | 33 | 25 | 31 | 44 |
| Computer sciences | 32 | 37 | 27 | 33 | 42 | 37 | 43 | 40 | 42 | 42 |
| Biological sciences | 160 | 134 | 190 | 194 | 228 | 238 | 258 | 251 | 296 | 330 |
| Agricultural sciences | 9 | 13 | 9 | 14 | 10 | 13 | 16 | 6 | 20 | 14 |
| Psychology | 46 | 47 | 52 | 81 | 84 | 77 | 102 | 93 | 107 | 124 |
| Social sciences | 49 | 63 | 62 | 65 | 94 | 61 | 97 | 92 | 98 | 106 |
| Non-S&E, total | 190 | 197 | 179 | 214 | 247 | 254 | 298 | 292 | 319 | 386 |
| Health | 23 | 32 | 17 | 36 | 22 | 37 | 42 | 33 | 43 | 55 |
| Humanities[1] | 43 | 46 | 53 | 59 | 86 | 82 | 105 | 103 | 116 | 133 |
| Education | 85 | 80 | 85 | 81 | 84 | 92 | 101 | 101 | 102 | 127 |
| Professional/other | 39 | 39 | 24 | 38 | 55 | 43 | 50 | 55 | 58 | 71 |
| Grand total, all fields | 789 | 848 | 891 | 950 | 1,141 | 1,090 | 1,308 | 1,170 | 1,322 | 1,407 |

See explanatory information, if any, and SOURCE at end of table.

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000



| Field of study | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|---|---|---|---|---|---|---|---|---|---|
| | U.S. citizens, black | | | | | | | | | |
| Science and engineering, total | 368 | 323 | 376 | 391 | 471 | 491 | 538 | 576 | 639 | 664 |
| Engineering, total | 43 | 32 | 41 | 44 | 54 | 59 | 83 | 76 | 84 | 76 |
| Chemical | 4 | 8 | 4 | 6 | 2 | 10 | 12 | 3 | 9 | 9 |
| Civil | 8 | 0 | 3 | 8 | 7 | 6 | 9 | 8 | 5 | 5 |
| Electrical | 16 | 12 | 13 | 14 | 20 | 17 | 27 | 22 | 25 | 19 |
| Mechanical | 3 | 3 | 2 | 4 | 8 | 9 | 10 | 13 | 10 | 17 |
| Other engineering | 12 | 9 | 19 | 12 | 17 | 17 | 25 | 30 | 35 | 26 |
| Sciences, total | 325 | 291 | 335 | 347 | 417 | 432 | 455 | 500 | 555 | 588 |
| Physical sciences, total | 25 | 21 | 29 | 33 | 37 | 46 | 46 | 51 | 54 | 52 |
| Astronomy | 0 | 1 | 2 | 0 | 1 | 0 | 2 | 1 | 2 | 1 |
| Chemistry | 19 | 13 | 19 | 23 | 27 | 34 | 31 | 40 | 46 | 36 |
| Physics | 6 | 6 | 7 | 9 | 9 | 12 | 13 | 10 | 6 | 15 |
| Other physical sciences | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, & ocean sciences | 2 | 5 | 2 | 3 | 2 | 3 | 4 | 8 | 11 | 7 |
| Mathematics | 9 | 4 | 5 | 9 | 4 | 8 | 6 | 12 | 10 | 14 |
| Computer sciences | 5 | 4 | 5 | 7 | 9 | 12 | 4 | 12 | 16 | 13 |
| Biological sciences | 51 | 47 | 64 | 67 | 91 | 82 | 100 | 100 | 109 | 115 |
| Agricultural sciences | 6 | 6 | 5 | 10 | 9 | 15 | 15 | 8 | 16 | 8 |
| Psychology | 126 | 101 | 117 | 112 | 145 | 146 | 146 | 150 | 169 | 188 |
| Social sciences | 101 | 103 | 108 | 106 | 120 | 120 | 134 | 159 | 170 | 191 |
| Non-S&E, total | 642 | 648 | 735 | 710 | 836 | 822 | 811 | 906 | 955 | 992 |
| Health | 35 | 35 | 52 | 41 | 55 | 42 | 51 | 60 | 50 | 67 |
| Humanities[1] | 84 | 84 | 82 | 94 | 96 | 107 | 126 | 132 | 153 | 148 |
| Education | 437 | 467 | 516 | 486 | 583 | 581 | 532 | 624 | 623 | 680 |
| Professional/other | 86 | 62 | 85 | 89 | 102 | 92 | 102 | 90 | 129 | 97 |
| Grand total, all fields | 1,010 | 971 | 1,111 | 1,101 | 1,307 | 1,313 | 1,349 | 1,482 | 1,594 | 1,656 |
| | U.S. citizens, Hispanic | | | | | | | | | |
| Science and engineering, total | 411 | 433 | 444 | 463 | 478 | 526 | 571 | 683 | 635 | 630 |
| Engineering, total | 49 | 57 | 56 | 49 | 60 | 85 | 81 | 100 | 71 | 68 |
| Chemical | 10 | 10 | 10 | 5 | 11 | 14 | 5 | 10 | 5 | 13 |
| Civil | 5 | 6 | 7 | 7 | 7 | 2 | 10 | 15 | 11 | 7 |
| Electrical | 12 | 14 | 16 | 16 | 14 | 27 | 22 | 27 | 28 | 19 |
| Mechanical | 8 | 10 | 3 | 7 | 5 | 10 | 14 | 19 | 8 | 10 |
| Other engineering | 14 | 17 | 20 | 14 | 23 | 32 | 30 | 29 | 19 | 19 |
| Sciences, total | 362 | 376 | 388 | 414 | 418 | 441 | 490 | 583 | 564 | 562 |
| Physical sciences, total | 54 | 58 | 65 | 75 | 61 | 50 | 58 | 49 | 55 | 71 |
| Astronomy | 1 | 4 | 1 | 2 | 3 | 1 | 3 | 2 | 0 | 1 |
| Chemistry | 39 | 34 | 43 | 49 | 38 | 31 | 36 | 34 | 41 | 48 |
| Physics | 14 | 20 | 21 | 24 | 20 | 18 | 19 | 13 | 14 | 21 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Earth, atmospheric, & ocean sciences | 12 | 13 | 8 | 7 | 7 | 13 | 16 | 15 | 19 | 18 |
| Mathematics | 6 | 10 | 9 | 12 | 12 | 8 | 17 | 25 | 12 | 13 |
| Computer sciences | 11 | 7 | 5 | 5 | 6 | 12 | 15 | 13 | 12 | 11 |
| Biological sciences | 79 | 90 | 93 | 111 | 102 | 106 | 131 | 150 | 153 | 154 |
| Agricultural sciences | 7 | 9 | 14 | 16 | 10 | 8 | 15 | 25 | 10 | 17 |
| Psychology | 113 | 122 | 120 | 128 | 137 | 167 | 160 | 197 | 198 | 187 |
| Social sciences | 80 | 67 | 74 | 60 | 83 | 77 | 78 | 109 | 105 | 91 |
| Non-S&E, total | 321 | 345 | 389 | 421 | 434 | 421 | 486 | 520 | 516 | 527 |
| Health | 12 | 12 | 19 | 20 | 29 | 31 | 29 | 37 | 39 | 33 |
| Humanities[1] | 105 | 98 | 121 | 129 | 123 | 138 | 172 | 155 | 157 | 176 |
| Education | 175 | 200 | 213 | 226 | 235 | 203 | 245 | 284 | 271 | 271 |
| Professional/other | 29 | 35 | 36 | 46 | 47 | 49 | 40 | 44 | 49 | 47 |
| Grand total, all fields | 732 | 778 | 833 | 884 | 912 | 947 | 1,057 | 1,203 | 1,151 | 1,157 |

See explanatory information, if any, and SOURCE at end of table.

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000



| Field of study | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|---|---|---|---|---|---|---|---|---|---|
| | U.S. citizens, Puerto Rican | | | | | | | | | |
| Science and engineering, total | 99 | 120 | 112 | 131 | 137 | 140 | 173 | 173 | 183 | 168 |
| Engineering, total | 9 | 13 | 10 | 10 | 13 | 22 | 23 | 17 | 23 | 20 |
| Chemical | 2 | 3 | 2 | 2 | 4 | 4 | 1 | 3 | 2 | 5 |
| Civil | 1 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 2 | 2 |
| Electrical | 0 | 3 | 5 | 3 | 3 | 4 | 4 | 3 | 11 | 6 |
| Mechanical | 2 | 1 | 1 | 1 | 1 | 3 | 6 | 5 | 2 | 2 |
| Other engineering | 4 | 5 | 1 | 3 | 4 | 10 | 7 | 5 | 6 | 5 |
| Sciences, total | 90 | 107 | 102 | 121 | 124 | 118 | 150 | 156 | 160 | 148 |
| Physical sciences, total | 17 | 20 | 17 | 26 | 21 | 12 | 20 | 11 | 22 | 19 |
| Astronomy | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 |
| Chemistry | 14 | 14 | 14 | 19 | 17 | 9 | 13 | 9 | 18 | 18 |
| Physics | 3 | 5 | 3 | 7 | 3 | 3 | 7 | 1 | 4 | 1 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, & ocean sciences | 0 | 3 | 1 | 0 | 2 | 3 | 6 | 5 | 5 | 5 |
| Mathematics | 0 | 2 | 1 | 1 | 1 | 3 | 4 | 7 | 2 | 2 |
| Computer sciences | 3 | 1 | 1 | 4 | 0 | 5 | 6 | 2 | 6 | 4 |
| Biological sciences | 23 | 27 | 27 | 28 | 30 | 30 | 37 | 43 | 47 | 33 |
| Agricultural sciences | 0 | 3 | 10 | 5 | 3 | 4 | 5 | 3 | 1 | 6 |
| Psychology | 20 | 35 | 24 | 43 | 44 | 48 | 56 | 71 | 56 | 60 |
| Social sciences | 27 | 16 | 21 | 14 | 23 | 13 | 16 | 14 | 21 | 19 |
| Non-S&E, total | 92 | 109 | 120 | 126 | 132 | 109 | 141 | 135 | 150 | 139 |
| Health | 3 | 4 | 3 | 6 | 12 | 7 | 10 | 7 | 11 | 9 |
| Humanities[1] | 30 | 22 | 36 | 38 | 30 | 38 | 49 | 37 | 31 | 44 |
| Education | 52 | 76 | 70 | 68 | 69 | 51 | 71 | 77 | 89 | 71 |
| Professional/other | 7 | 7 | 11 | 14 | 21 | 13 | 11 | 14 | 19 | 15 |
| Grand total, all fields | 191 | 229 | 232 | 257 | 269 | 249 | 314 | 308 | 333 | 307 |
| | U.S. citizens, Mexican American | | | | | | | | | |
| Science and engineering, total | 117 | 110 | 103 | 134 | 136 | 137 | 153 | 213 | 154 | 202 |
| Engineering, total | 14 | 10 | 10 | 14 | 14 | 24 | 18 | 28 | 11 | 25 |
| Chemical | 4 | 1 | 1 | 1 | 3 | 3 | 2 | 1 | 0 | 4 |
| Civil | 2 | 2 | 0 | 1 | 3 | 0 | 2 | 5 | 3 | 3 |
| Electrical | 3 | 3 | 2 | 4 | 3 | 9 | 5 | 6 | 3 | 4 |
| Mechanical | 3 | 2 | 0 | 2 | 1 | 3 | 3 | 3 | 1 | 6 |
| Other engineering | 2 | 2 | 7 | 6 | 4 | 9 | 6 | 13 | 4 | 8 |
| Sciences, total | 103 | 100 | 93 | 120 | 122 | 113 | 135 | 185 | 143 | 177 |
| Physical sciences, total | 15 | 9 | 9 | 20 | 13 | 19 | 14 | 21 | 15 | 22 |
| Astronomy | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 |
| Chemistry | 12 | 6 | 6 | 16 | 8 | 13 | 9 | 15 | 9 | 17 |
| Physics | 3 | 3 | 3 | 3 | 4 | 5 | 5 | 5 | 6 | 5 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, & ocean sciences | 4 | 6 | 1 | 4 | 3 | 5 | 3 | 5 | 5 | 5 |
| Mathematics | 3 | 3 | 2 | 4 | 5 | 1 | 3 | 6 | 7 | 8 |
| Computer sciences | 0 | 2 | 0 | 0 | 3 | 1 | 2 | 3 | 0 | 3 |
| Biological sciences | 23 | 21 | 22 | 29 | 24 | 28 | 40 | 49 | 39 | 44 |
| Agricultural sciences | 1 | 4 | 2 | 5 | 3 | 1 | 2 | 9 | 3 | 5 |
| Psychology | 34 | 36 | 40 | 38 | 47 | 38 | 49 | 51 | 40 | 59 |
| Social sciences | 23 | 19 | 17 | 20 | 24 | 20 | 22 | 41 | 34 | 31 |
| Non-S&E, total | 99 | 97 | 127 | 156 | 137 | 140 | 143 | 194 | 179 | 194 |
| Health | 3 | 5 | 7 | 3 | 8 | 6 | 7 | 15 | 14 | 11 |
| Humanities[1] | 23 | 22 | 34 | 39 | 33 | 39 | 37 | 53 | 46 | 56 |
| Education | 64 | 58 | 73 | 100 | 91 | 78 | 89 | 115 | 101 | 114 |
| Professional/other | 9 | 12 | 13 | 14 | 5 | 17 | 10 | 11 | 18 | 13 |
| Grand total, all fields | 216 | 207 | 230 | 290 | 273 | 277 | 296 | 407 | 333 | 396 |

See explanatory information, if any, and SOURCE at end of table.

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000



| Field of study | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|---|---|---|---|---|---|---|---|---|---|
| | U.S. citizens, other Hispanic | | | | | | | | | |
| Science and engineering, total | 195 | 203 | 229 | 198 | 205 | 249 | 245 | 297 | 298 | 260 |
| Engineering, total | 26 | 34 | 36 | 25 | 33 | 39 | 40 | 55 | 37 | 23 |
| Chemical | 4 | 6 | 7 | 2 | 4 | 7 | 2 | 6 | 3 | 4 |
| Civil | 2 | 3 | 6 | 5 | 3 | 1 | 3 | 9 | 6 | 2 |
| Electrical | 9 | 8 | 9 | 9 | 8 | 14 | 13 | 18 | 14 | 9 |
| Mechanical | 3 | 7 | 2 | 4 | 3 | 4 | 5 | 11 | 5 | 2 |
| Other engineering | 8 | 10 | 12 | 5 | 15 | 13 | 17 | 11 | 9 | 6 |
| Sciences, total | 169 | 169 | 193 | 173 | 172 | 210 | 205 | 242 | 261 | 237 |
| Physical sciences, total | 22 | 29 | 39 | 29 | 27 | 19 | 24 | 17 | 18 | 30 |
| Astronomy | 1 | 3 | 1 | 1 | 1 | 0 | 3 | 0 | 0 | 1 |
| Chemistry | 13 | 14 | 23 | 14 | 13 | 9 | 14 | 10 | 14 | 13 |
| Physics | 8 | 12 | 15 | 14 | 13 | 10 | 7 | 7 | 4 | 15 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Earth, atmospheric, & ocean sciences | 8 | 4 | 6 | 3 | 2 | 5 | 7 | 5 | 9 | 8 |
| Mathematics | 3 | 5 | 6 | 7 | 6 | 4 | 10 | 12 | 3 | 3 |
| Computer sciences | 8 | 4 | 4 | 1 | 3 | 6 | 7 | 8 | 6 | 4 |
| Biological sciences | 33 | 42 | 44 | 54 | 48 | 48 | 54 | 58 | 67 | 77 |
| Agricultural sciences | 6 | 2 | 2 | 6 | 4 | 3 | 8 | 13 | 6 | 6 |
| Psychology | 59 | 51 | 56 | 47 | 46 | 81 | 55 | 75 | 102 | 68 |
| Social sciences | 30 | 32 | 36 | 26 | 36 | 44 | 40 | 54 | 50 | 41 |
| Non-S&E, total | 130 | 139 | 142 | 139 | 165 | 172 | 202 | 191 | 187 | 194 |
| Health | 6 | 3 | 9 | 11 | 9 | 18 | 12 | 15 | 14 | 13 |
| Humanities[1] | 52 | 54 | 51 | 52 | 60 | 61 | 86 | 65 | 80 | 76 |
| Education | 59 | 66 | 70 | 58 | 75 | 74 | 85 | 92 | 81 | 86 |
| Professional/other | 13 | 16 | 12 | 18 | 21 | 19 | 19 | 19 | 12 | 19 |
| Grand total, all fields | 325 | 342 | 371 | 337 | 370 | 421 | 447 | 488 | 485 | 454 |
| | U.S. citizens, white | | | | | | | | | |
| Science and engineering, total | 12,840 | 12,852 | 13,211 | 13,357 | 13,379 | 13,460 | 13,293 | 13,453 | 13,135 | 12,894 |
| Engineering, total | 1,707 | 1,750 | 1,892 | 1,886 | 1,959 | 2,125 | 2,150 | 2,037 | 1,982 | 1,754 |
| Chemical | 300 | 267 | 282 | 246 | 243 | 262 | 270 | 263 | 279 | 266 |
| Civil | 143 | 142 | 147 | 181 | 175 | 184 | 206 | 196 | 219 | 180 |
| Electrical | 430 | 457 | 507 | 503 | 540 | 541 | 528 | 485 | 471 | 396 |
| Mechanical | 244 | 300 | 303 | 316 | 320 | 369 | 360 | 348 | 321 | 260 |
| Other engineering | 590 | 584 | 653 | 640 | 681 | 769 | 786 | 745 | 692 | 652 |
| Sciences, total | 11,133 | 11,102 | 11,319 | 11,471 | 11,420 | 11,335 | 11,143 | 11,416 | 11,153 | 11,140 |
| Physical sciences, total | 1,897 | 1,918 | 1,848 | 1,944 | 1,848 | 1,824 | 1,793 | 1,832 | 1,744 | 1,607 |
| Astronomy | 81 | 91 | 97 | 94 | 109 | 127 | 129 | 113 | 103 | 112 |
| Chemistry | 1,201 | 1,193 | 1,119 | 1,139 | 1,066 | 1,028 | 1,040 | 1,093 | 1,052 | 950 |
| Physics | 602 | 616 | 623 | 698 | 660 | 660 | 610 | 611 | 579 | 528 |
| Other physical sciences | 13 | 18 | 9 | 13 | 13 | 9 | 14 | 15 | 10 | 17 |
| Earth, atmospheric, & ocean sciences | 546 | 469 | 440 | 486 | 452 | 430 | 475 | 451 | 409 | 418 |
| Mathematics | 403 | 407 | 445 | 455 | 507 | 441 | 449 | 491 | 473 | 433 |
| Computer sciences | 330 | 363 | 379 | 375 | 418 | 342 | 341 | 382 | 329 | 309 |
| Biological sciences | 2,965 | 2,998 | 3,056 | 3,005 | 3,023 | 3,055 | 3,070 | 3,139 | 3,016 | 3,193 |
| Agricultural sciences | 527 | 475 | 426 | 471 | 456 | 424 | 397 | 403 | 385 | 394 |
| Psychology | 2,616 | 2,580 | 2,751 | 2,694 | 2,679 | 2,701 | 2,481 | 2,598 | 2,634 | 2,564 |
| Social sciences | 1,849 | 1,892 | 1,974 | 2,041 | 2,037 | 2,118 | 2,137 | 2,120 | 2,163 | 2,222 |
| Non-S&E, total | 9,586 | 10,060 | 10,050 | 10,459 | 10,546 | 10,405 | 9,880 | 10,015 | 9,771 | 10,017 |
| Health | 691 | 714 | 782 | 846 | 809 | 806 | 812 | 907 | 811 | 934 |
| Humanities[1] | 2,685 | 2,927 | 2,969 | 3,150 | 3,374 | 3,333 | 3,368 | 3,461 | 3,471 | 3,575 |
| Education | 4,820 | 5,007 | 4,897 | 4,989 | 4,801 | 4,882 | 4,407 | 4,357 | 4,315 | 4,312 |
| Professional/other | 1,390 | 1,412 | 1,402 | 1,474 | 1,562 | 1,384 | 1,293 | 1,290 | 1,174 | 1,196 |
| Grand total, all fields | 22,426 | 22,912 | 23,261 | 23,816 | 23,925 | 23,865 | 23,173 | 23,468 | 22,906 | 22,911 |

See explanatory information, if any, and SOURCE at end of table.

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000



| Field of study | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|---|---|---|---|---|---|---|---|---|---|
| | U.S. citizens, men | | | | | | | | | |
| Science and engineering, total | 9,391 | 9,397 | 9,429 | 9,463 | 9,599 | 9,574 | 9,898 | 9,742 | 9,391 | 9,048 |
| Engineering, total | 1,807 | 1,826 | 1,932 | 1,872 | 2,012 | 2,177 | 2,321 | 2,191 | 2,047 | 1,790 |
| Chemical | 297 | 250 | 265 | 236 | 221 | 235 | 260 | 263 | 268 | 247 |
| Civil | 152 | 144 | 138 | 155 | 170 | 175 | 204 | 196 | 206 | 177 |
| Electrical | 510 | 542 | 573 | 570 | 604 | 624 | 677 | 572 | 575 | 460 |
| Mechanical | 263 | 329 | 314 | 327 | 355 | 391 | 409 | 393 | 344 | 292 |
| Other engineering | 585 | 561 | 642 | 584 | 662 | 752 | 771 | 767 | 654 | 614 |
| Sciences, total | 7,584 | 7,571 | 7,497 | 7,591 | 7,587 | 7,397 | 7,577 | 7,551 | 7,344 | 7,258 |
| Physical sciences, total | 1,708 | 1,710 | 1,647 | 1,745 | 1,618 | 1,609 | 1,659 | 1,628 | 1,558 | 1,402 |
| Astronomy | 77 | 87 | 86 | 83 | 99 | 106 | 126 | 109 | 87 | 95 |
| Chemistry | 1,015 | 971 | 920 | 946 | 829 | 836 | 883 | 894 | 892 | 741 |
| Physics | 605 | 636 | 633 | 703 | 677 | 660 | 639 | 616 | 574 | 553 |
| Other physical sciences | 11 | 16 | 8 | 13 | 13 | 7 | 11 | 9 | 5 | 13 |
| Earth, atmospheric, & ocean sciences | 444 | 368 | 351 | 382 | 366 | 348 | 391 | 352 | 337 | 320 |
| Mathematics | 370 | 357 | 372 | 382 | 422 | 385 | 387 | 405 | 372 | 369 |
| Computer sciences | 305 | 353 | 343 | 349 | 368 | 345 | 348 | 371 | 322 | 314 |
| Biological sciences | 2,024 | 1,999 | 2,000 | 1,930 | 2,007 | 1,962 | 2,033 | 2,074 | 2,005 | 2,092 |
| Agricultural sciences | 436 | 377 | 333 | 387 | 380 | 328 | 334 | 310 | 296 | 300 |
| Psychology | 1,106 | 1,176 | 1,202 | 1,143 | 1,093 | 1,019 | 996 | 1,033 | 1,033 | 1,016 |
| Social sciences | 1,191 | 1,231 | 1,249 | 1,273 | 1,333 | 1,401 | 1,429 | 1,378 | 1,421 | 1,445 |
| Non-S&E, total | 4,997 | 5,122 | 5,088 | 5,272 | 5,367 | 5,133 | 5,179 | 5,141 | 4,981 | 5,062 |
| Health | 221 | 203 | 226 | 283 | 263 | 248 | 255 | 273 | 280 | 309 |
| Humanities[1] | 1,606 | 1,728 | 1,699 | 1,837 | 1,937 | 1,854 | 2,070 | 2,072 | 2,052 | 2,111 |
| Education | 2,255 | 2,263 | 2,282 | 2,200 | 2,149 | 2,149 | 1,984 | 1,984 | 1,882 | 1,876 |
| Professional/other | 915 | 928 | 881 | 952 | 1,018 | 882 | 870 | 812 | 767 | 766 |
| Grand total, all fields | 14,388 | 14,519 | 14,517 | 14,735 | 14,966 | 14,707 | 15,077 | 14,883 | 14,372 | 14,110 |
| | U.S. citizens, men, American Indian/Alaskan Native | | | | | | | | | |
| Science and engineering, total | 37 | 42 | 25 | 40 | 42 | 62 | 45 | 54 | 60 | 43 |
| Engineering, total | 4 | 8 | 2 | 4 | 9 | 13 | 14 | 9 | 10 | 4 |
| Chemical | 0 | 1 | 1 | 1 | 2 | 1 | 3 | 0 | 1 | 0 |
| Civil | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 |
| Electrical | 1 | 3 | 0 | 1 | 1 | 1 | 5 | 3 | 1 | 0 |
| Mechanical | 1 | 1 | 0 | 0 | 2 | 4 | 5 | 2 | 2 | 2 |
| Other engineering | 1 | 3 | 1 | 2 | 4 | 6 | 0 | 4 | 5 | 2 |
| Sciences, total | 33 | 34 | 23 | 36 | 33 | 49 | 31 | 45 | 50 | 39 |
| Physical sciences, total | 8 | 10 | 3 | 5 | 5 | 5 | 10 | 9 | 7 | 7 |
| Astronomy | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 0 |
| Chemistry | 7 | 4 | 1 | 4 | 3 | 3 | 6 | 6 | 3 | 6 |
| Physics | 1 | 6 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 1 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| Earth, atmospheric, & ocean sciences | 2 | 1 | 4 | 1 | 0 | 2 | 1 | 2 | 3 | 4 |
| Mathematics | 0 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| Computer sciences | 1 | 2 | 0 | 0 | 0 | 2 | 0 | 3 | 0 | 1 |
| Biological sciences | 6 | 8 | 5 | 11 | 10 | 11 | 4 | 6 | 10 | 10 |
| Agricultural sciences | 4 | 0 | 1 | 1 | 2 | 2 | 5 | 7 | 1 | 3 |
| Psychology | 5 | 6 | 6 | 5 | 6 | 9 | 6 | 13 | 12 | 3 |
| Social sciences | 7 | 6 | 3 | 11 | 9 | 17 | 4 | 4 | 16 | 10 |
| Non-S&E, total | 37 | 40 | 35 | 31 | 38 | 41 | 33 | 50 | 37 | 33 |
| Health | 3 | 3 | 0 | 1 | 2 | 1 | 2 | 1 | 0 | 1 |
| Humanities[1] | 3 | 12 | 7 | 12 | 10 | 10 | 8 | 14 | 11 | 11 |
| Education | 29 | 20 | 21 | 10 | 17 | 22 | 18 | 26 | 19 | 17 |
| Professional/other | 2 | 5 | 7 | 8 | 9 | 8 | 5 | 9 | 7 | 4 |
| Grand total, all fields | 74 | 82 | 60 | 71 | 80 | 103 | 78 | 104 | 97 | 76 |

See explanatory information, if any, and SOURCE at end of table.

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000



| Field of study | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|---|---|---|---|---|---|---|---|---|---|
| | U.S. citizens, men, Asian/Pacific Islander | | | | | | | | | |
| Science and engineering, total | 407 | 450 | 479 | 492 | 571 | 512 | 638 | 527 | 636 | 615 |
| Engineering, total | 160 | 181 | 193 | 171 | 203 | 221 | 244 | 193 | 224 | 189 |
| Chemical | 20 | 18 | 22 | 20 | 16 | 17 | 14 | 27 | 23 | 30 |
| Civil | 10 | 11 | 10 | 7 | 13 | 11 | 10 | 13 | 19 | 14 |
| Electrical | 64 | 83 | 79 | 86 | 80 | 95 | 112 | 69 | 81 | 64 |
| Mechanical | 23 | 33 | 33 | 23 | 34 | 36 | 42 | 29 | 37 | 30 |
| Other engineering | 43 | 36 | 49 | 35 | 60 | 62 | 66 | 55 | 64 | 51 |
| Sciences, total | 247 | 269 | 286 | 321 | 368 | 291 | 394 | 334 | 412 | 426 |
| Physical sciences, total | 66 | 72 | 79 | 88 | 99 | 74 | 108 | 85 | 85 | 65 |
| Astronomy | 0 | 1 | 2 | 4 | 3 | 3 | 6 | 5 | 2 | 6 |
| Chemistry | 48 | 36 | 39 | 43 | 52 | 32 | 52 | 49 | 55 | 21 |
| Physics | 18 | 35 | 38 | 40 | 44 | 39 | 50 | 31 | 28 | 38 |
| Other physical sciences | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, & ocean sciences | 4 | 11 | 4 | 6 | 7 | 5 | 13 | 4 | 11 | 6 |
| Mathematics | 18 | 17 | 18 | 14 | 18 | 15 | 27 | 12 | 23 | 34 |
| Computer sciences | 25 | 34 | 23 | 29 | 34 | 28 | 32 | 30 | 33 | 34 |
| Biological sciences | 91 | 71 | 102 | 114 | 126 | 109 | 132 | 132 | 168 | 178 |
| Agricultural sciences | 6 | 8 | 5 | 12 | 5 | 6 | 11 | 5 | 10 | 11 |
| Psychology | 13 | 17 | 20 | 20 | 30 | 20 | 22 | 23 | 31 | 40 |
| Social sciences | 24 | 39 | 35 | 38 | 49 | 34 | 49 | 43 | 51 | 58 |
| Non-S&E, total | 76 | 81 | 74 | 99 | 96 | 103 | 110 | 121 | 136 | 146 |
| Health | 10 | 9 | 7 | 15 | 7 | 16 | 15 | 14 | 15 | 18 |
| Humanities[1] | 17 | 22 | 17 | 31 | 28 | 29 | 42 | 39 | 44 | 48 |
| Education | 26 | 22 | 34 | 28 | 27 | 31 | 25 | 37 | 40 | 42 |
| Professional/other | 23 | 28 | 16 | 25 | 34 | 27 | 28 | 31 | 37 | 38 |
| Grand total, all fields | 483 | 531 | 553 | 591 | 667 | 615 | 748 | 648 | 772 | 761 |
| | U.S. citizens, men, black | | | | | | | | | |
| Science and engineering, total | 190 | 162 | 180 | 192 | 219 | 253 | 264 | 241 | 296 | 275 |
| Engineering, total | 35 | 26 | 30 | 31 | 41 | 40 | 61 | 55 | 61 | 51 |
| Chemical | 3 | 7 | 1 | 2 | 1 | 5 | 6 | 2 | 5 | 3 |
| Civil | 6 | 0 | 1 | 6 | 4 | 5 | 9 | 6 | 3 | 4 |
| Electrical | 14 | 10 | 11 | 11 | 16 | 12 | 24 | 18 | 20 | 17 |
| Mechanical | 2 | 3 | 2 | 3 | 8 | 6 | 9 | 13 | 9 | 12 |
| Other engineering | 10 | 6 | 15 | 9 | 12 | 12 | 13 | 16 | 24 | 15 |
| Sciences, total | 155 | 136 | 150 | 161 | 178 | 213 | 203 | 186 | 235 | 224 |
| Physical sciences, total | 21 | 16 | 20 | 21 | 20 | 34 | 36 | 25 | 30 | 34 |
| Astronomy | 0 | 0 | 2 | 0 | 1 | 0 | 1 | 1 | 0 | 0 |
| Chemistry | 15 | 9 | 11 | 15 | 11 | 24 | 23 | 17 | 27 | 20 |
| Physics | 6 | 6 | 7 | 5 | 8 | 10 | 12 | 7 | 3 | 14 |
| Other physical sciences | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, & ocean sciences | 1 | 4 | 2 | 2 | 2 | 1 | 3 | 5 | 6 | 3 |
| Mathematics | 5 | 4 | 4 | 6 | 3 | 6 | 4 | 5 | 4 | 7 |
| Computer sciences | 1 | 3 | 2 | 5 | 5 | 9 | 3 | 4 | 8 | 8 |
| Biological sciences | 25 | 25 | 34 | 24 | 52 | 46 | 43 | 34 | 47 | 43 |
| Agricultural sciences | 5 | 5 | 3 | 7 | 4 | 15 | 10 | 7 | 10 | 3 |
| Psychology | 42 | 25 | 43 | 40 | 37 | 39 | 39 | 38 | 39 | 42 |
| Social sciences | 55 | 54 | 42 | 56 | 55 | 63 | 65 | 68 | 91 | 84 |
| Non-S&E, total | 231 | 234 | 261 | 219 | 271 | 281 | 269 | 285 | 306 | 293 |
| Health | 13 | 11 | 15 | 11 | 14 | 10 | 12 | 11 | 8 | 11 |
| Humanities[1] | 37 | 42 | 44 | 42 | 42 | 47 | 55 | 63 | 61 | 62 |
| Education | 149 | 148 | 169 | 131 | 177 | 185 | 157 | 175 | 177 | 177 |
| Professional/other | 32 | 33 | 33 | 35 | 38 | 39 | 45 | 36 | 60 | 43 |
| Grand total, all fields | 421 | 396 | 441 | 411 | 490 | 534 | 533 | 526 | 602 | 568 |

See explanatory information, if any, and SOURCE at end of table.

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000



| Field of study | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|---|---|---|---|---|---|---|---|---|---|
| | U.S. citizens, men, Hispanic | | | | | | | | | |
| Science and engineering, total | 242 | 263 | 256 | 262 | 279 | 290 | 337 | 381 | 312 | 331 |
| Engineering, total | 39 | 46 | 45 | 44 | 50 | 71 | 60 | 87 | 49 | 58 |
| Chemical | 6 | 8 | 7 | 5 | 9 | 9 | 3 | 10 | 2 | 10 |
| Civil | 3 | 5 | 5 | 5 | 6 | 2 | 9 | 12 | 5 | 6 |
| Electrical | 12 | 12 | 13 | 16 | 13 | 23 | 16 | 25 | 24 | 19 |
| Mechanical | 6 | 8 | 3 | 6 | 5 | 10 | 11 | 18 | 7 | 9 |
| Other engineering | 12 | 13 | 17 | 12 | 17 | 27 | 21 | 22 | 11 | 14 |
| Sciences, total | 203 | 217 | 211 | 218 | 229 | 219 | 277 | 294 | 263 | 273 |
| Physical sciences, total | 44 | 43 | 49 | 58 | 42 | 41 | 46 | 39 | 34 | 49 |
| Astronomy | 1 | 3 | 1 | 2 | 1 | 1 | 2 | 2 | 0 | 1 |
| Chemistry | 31 | 23 | 29 | 36 | 24 | 25 | 26 | 25 | 21 | 28 |
| Physics | 12 | 17 | 19 | 20 | 17 | 15 | 18 | 12 | 13 | 19 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Earth, atmospheric, & ocean sciences | 11 | 9 | 6 | 5 | 4 | 9 | 11 | 10 | 15 | 15 |
| Mathematics | 3 | 7 | 8 | 9 | 9 | 8 | 12 | 18 | 9 | 7 |
| Computer sciences | 10 | 6 | 4 | 5 | 2 | 7 | 13 | 12 | 9 | 9 |
| Biological sciences | 44 | 55 | 47 | 61 | 67 | 55 | 75 | 79 | 85 | 73 |
| Agricultural sciences | 6 | 7 | 9 | 9 | 9 | 6 | 12 | 16 | 6 | 10 |
| Psychology | 47 | 52 | 42 | 42 | 43 | 51 | 59 | 54 | 52 | 54 |
| Social sciences | 38 | 38 | 46 | 29 | 53 | 42 | 49 | 66 | 53 | 56 |
| Non-S&E, total | 129 | 147 | 167 | 176 | 179 | 183 | 205 | 230 | 187 | 209 |
| Health | 4 | 4 | 4 | 3 | 15 | 11 | 7 | 12 | 11 | 10 |
| Humanities[1] | 49 | 51 | 55 | 67 | 60 | 65 | 90 | 83 | 74 | 82 |
| Education | 63 | 74 | 88 | 76 | 82 | 83 | 85 | 110 | 84 | 97 |
| Professional/other | 13 | 18 | 20 | 30 | 22 | 24 | 23 | 25 | 18 | 20 |
| Grand total, all fields | 371 | 410 | 423 | 438 | 458 | 473 | 542 | 611 | 499 | 540 |
| | U.S. citizens, men, Puerto Rican | | | | | | | | | |
| Science and engineering, total | 52 | 71 | 70 | 72 | 74 | 72 | 100 | 69 | 88 | 74 |
| Engineering, total | 7 | 10 | 8 | 10 | 11 | 17 | 19 | 16 | 15 | 16 |
| Chemical | 1 | 3 | 2 | 2 | 3 | 2 | 1 | 3 | 1 | 3 |
| Civil | 1 | 1 | 0 | 1 | 1 | 1 | 5 | 1 | 1 | 2 |
| Electrical | 0 | 2 | 4 | 3 | 3 | 4 | 3 | 3 | 9 | 6 |
| Mechanical | 2 | 0 | 1 | 1 | 1 | 3 | 6 | 5 | 2 | 2 |
| Other engineering | 3 | 4 | 1 | 3 | 3 | 7 | 4 | 4 | 2 | 3 |
| Sciences, total | 45 | 61 | 62 | 62 | 63 | 55 | 81 | 53 | 73 | 58 |
| Physical sciences, total | 11 | 14 | 12 | 19 | 12 | 8 | 18 | 6 | 13 | 9 |
| Astronomy | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| Chemistry | 9 | 9 | 9 | 13 | 9 | 6 | 11 | 4 | 9 | 8 |
| Physics | 2 | 4 | 3 | 6 | 3 | 2 | 7 | 1 | 4 | 1 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, & ocean sciences | 0 | 3 | 1 | 0 | 1 | 3 | 4 | 2 | 4 | 5 |
| Mathematics | 0 | 1 | 1 | 1 | 0 | 3 | 3 | 4 | 2 | 1 |
| Computer sciences | 3 | 1 | 0 | 4 | 0 | 4 | 6 | 1 | 5 | 4 |
| Biological sciences | 12 | 16 | 16 | 14 | 21 | 12 | 21 | 20 | 24 | 11 |
| Agricultural sciences | 0 | 3 | 7 | 2 | 3 | 3 | 4 | 2 | 0 | 3 |
| Psychology | 6 | 16 | 13 | 13 | 13 | 15 | 20 | 12 | 16 | 12 |
| Social sciences | 13 | 7 | 12 | 9 | 13 | 7 | 5 | 6 | 9 | 13 |
| Non-S&E, total | 32 | 39 | 51 | 51 | 46 | 40 | 55 | 59 | 52 | 50 |
| Health | 2 | 3 | 0 | 2 | 7 | 2 | 3 | 3 | 5 | 3 |
| Humanities[1] | 11 | 10 | 18 | 16 | 14 | 16 | 26 | 20 | 14 | 19 |
| Education | 16 | 23 | 25 | 23 | 19 | 17 | 21 | 28 | 23 | 23 |
| Professional/other | 3 | 3 | 8 | 10 | 6 | 5 | 5 | 8 | 10 | 5 |
| Grand total, all fields | 84 | 110 | 121 | 123 | 120 | 112 | 155 | 128 | 140 | 124 |

See explanatory information, if any, and SOURCE at end of table

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000



| Field of study | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|---|---|---|---|---|---|---|---|---|---|
| | U.S. citizens, men, Mexican American | | | | | | | | | |
| Science and engineering, total | 76 | 72 | 61 | 80 | 79 | 85 | 87 | 130 | 82 | 118 |
| Engineering, total | 12 | 10 | 9 | 12 | 13 | 21 | 11 | 25 | 7 | 22 |
| Chemical | 3 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 0 | 3 |
| Civil | 2 | 2 | 0 | 1 | 3 | 0 | 1 | 4 | 1 | 3 |
| Electrical | 3 | 3 | 2 | 4 | 3 | 8 | 2 | 6 | 2 | 4 |
| Mechanical | 2 | 2 | 0 | 2 | 1 | 3 | 3 | 3 | 1 | 6 |
| Other engineering | 2 | 2 | 6 | 4 | 4 | 8 | 4 | 11 | 3 | 6 |
| Sciences, total | 64 | 62 | 52 | 68 | 66 | 64 | 76 | 105 | 75 | 96 |
| Physical sciences, total | 12 | 7 | 7 | 17 | 9 | 16 | 12 | 18 | 10 | 19 |
| Astronomy | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 |
| Chemistry | 10 | 4 | 5 | 14 | 6 | 11 | 7 | 12 | 5 | 14 |
| Physics | 2 | 3 | 2 | 2 | 3 | 4 | 5 | 5 | 5 | 5 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, & ocean sciences | 4 | 4 | 1 | 4 | 2 | 3 | 2 | 4 | 4 | 4 |
| Mathematics | 1 | 3 | 2 | 3 | 3 | 1 | 2 | 3 | 5 | 4 |
| Computer sciences | 0 | 2 | 0 | 0 | 1 | 1 | 2 | 3 | 0 | 2 |
| Biological sciences | 16 | 10 | 12 | 16 | 15 | 16 | 20 | 29 | 23 | 25 |
| Agricultural sciences | 1 | 3 | 1 | 4 | 2 | 1 | 2 | 6 | 3 | 3 |
| Psychology | 19 | 19 | 16 | 17 | 14 | 18 | 20 | 18 | 14 | 21 |
| Social sciences | 11 | 14 | 13 | 7 | 20 | 8 | 16 | 24 | 16 | 18 |
| Non-S&E, total | 44 | 45 | 56 | 70 | 68 | 70 | 68 | 80 | 68 | 76 |
| Health | 0 | 0 | 2 | 0 | 3 | 2 | 0 | 1 | 3 | 2 |
| Humanities[1] | 11 | 13 | 18 | 22 | 21 | 21 | 21 | 30 | 26 | 21 |
| Education | 27 | 26 | 29 | 37 | 40 | 37 | 41 | 44 | 34 | 46 |
| Professional/other | 6 | 6 | 7 | 11 | 4 | 10 | 6 | 5 | 5 | 7 |
| Grand total, all fields | 120 | 117 | 117 | 150 | 147 | 155 | 155 | 210 | 150 | 194 |
| | U.S. citizens, men, other Hispanic | | | | | | | | | |
| Science and engineering, total | 114 | 120 | 125 | 110 | 126 | 133 | 150 | 182 | 142 | 139 |
| Engineering, total | 20 | 26 | 28 | 22 | 26 | 33 | 30 | 46 | 27 | 20 |
| Chemical | 2 | 4 | 4 | 2 | 4 | 5 | 1 | 6 | 1 | 4 |
| Civil | 0 | 2 | 5 | 3 | 2 | 1 | 3 | 7 | 3 | 1 |
| Electrical | 9 | 7 | 7 | 9 | 7 | 11 | 11 | 16 | 13 | 9 |
| Mechanical | 2 | 6 | 2 | 3 | 3 | 4 | 2 | 10 | 4 | 1 |
| Other engineering | 7 | 7 | 10 | 5 | 10 | 12 | 13 | 7 | 6 | 5 |
| Sciences, total | 94 | 94 | 97 | 88 | 100 | 100 | 120 | 136 | 115 | 119 |
| Physical sciences, total | 21 | 22 | 30 | 22 | 21 | 17 | 16 | 15 | 11 | 21 |
| Astronomy | 1 | 2 | 1 | 1 | 1 | 0 | 2 | 0 | 0 | 1 |
| Chemistry | 12 | 10 | 15 | 9 | 9 | 8 | 8 | 9 | 7 | 6 |
| Physics | 8 | 10 | 14 | 12 | 11 | 9 | 6 | 6 | 4 | 13 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Earth, atmospheric, & ocean sciences | 7 | 2 | 4 | 1 | 1 | 3 | 5 | 4 | 7 | 6 |
| Mathematics | 2 | 3 | 5 | 5 | 6 | 4 | 7 | 11 | 2 | 2 |
| Computer sciences | 7 | 3 | 4 | 1 | 1 | 2 | 5 | 8 | 4 | 3 |
| Biological sciences | 16 | 29 | 19 | 31 | 31 | 27 | 34 | 30 | 38 | 37 |
| Agricultural sciences | 5 | 1 | 1 | 3 | 4 | 2 | 6 | 8 | 3 | 4 |
| Psychology | 22 | 17 | 13 | 12 | 16 | 18 | 19 | 24 | 22 | 21 |
| Social sciences | 14 | 17 | 21 | 13 | 20 | 27 | 28 | 36 | 28 | 25 |
| Non-S&E, total | 53 | 63 | 60 | 55 | 65 | 73 | 82 | 91 | 67 | 83 |
| Health | 2 | 1 | 2 | 1 | 5 | 7 | 4 | 8 | 3 | 5 |
| Humanities[1] | 27 | 28 | 19 | 29 | 25 | 28 | 43 | 33 | 34 | 42 |
| Education | 20 | 25 | 34 | 16 | 23 | 29 | 23 | 38 | 27 | 28 |
| Professional/other | 4 | 9 | 5 | 9 | 12 | 9 | 12 | 12 | 3 | 8 |
| Grand total, all fields | 167 | 183 | 185 | 165 | 191 | 206 | 232 | 273 | 209 | 222 |

See explanatory information, if any, and SOURCE at end of table.

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000



| Field of study | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|---|---|---|---|---|---|---|---|---|---|
| | U.S. citizens, men, white | | | | | | | | | |
| Science and engineering, total | 8,238 | 8,294 | 8,370 | 8,357 | 8,332 | 8,295 | 8,212 | 8,179 | 7,889 | 7,552 |
| Engineering, total | 1,486 | 1,523 | 1,644 | 1,595 | 1,662 | 1,801 | 1,838 | 1,759 | 1,650 | 1,440 |
| Chemical | 262 | 211 | 233 | 201 | 187 | 199 | 222 | 213 | 233 | 201 |
| Civil | 128 | 125 | 122 | 137 | 145 | 155 | 168 | 155 | 175 | 148 |
| Electrical | 397 | 419 | 462 | 453 | 480 | 482 | 482 | 443 | 432 | 347 |
| Mechanical | 217 | 281 | 272 | 291 | 296 | 332 | 328 | 316 | 277 | 229 |
| Other engineering | 482 | 487 | 555 | 513 | 554 | 633 | 638 | 632 | 533 | 515 |
| Sciences, total | 6,752 | 6,771 | 6,726 | 6,762 | 6,670 | 6,494 | 6,374 | 6,420 | 6,239 | 6,112 |
| Physical sciences, total | 1,525 | 1,536 | 1,473 | 1,557 | 1,422 | 1,418 | 1,402 | 1,402 | 1,370 | 1,211 |
| Astronomy | 75 | 81 | 78 | 75 | 91 | 98 | 107 | 91 | 83 | 85 |
| Chemistry | 896 | 886 | 828 | 843 | 733 | 738 | 748 | 765 | 771 | 642 |
| Physics | 544 | 555 | 560 | 628 | 587 | 575 | 537 | 538 | 511 | 472 |
| Other physical sciences | 10 | 14 | 7 | 11 | 11 | 7 | 10 | 8 | 5 | 12 |
| Earth, atmospheric, & ocean sciences | 409 | 339 | 332 | 366 | 346 | 326 | 349 | 317 | 293 | 282 |
| Mathematics | 324 | 319 | 334 | 344 | 388 | 348 | 325 | 353 | 326 | 314 |
| Computer sciences | 260 | 299 | 307 | 305 | 319 | 286 | 278 | 305 | 262 | 252 |
| Biological sciences | 1,825 | 1,802 | 1,782 | 1,700 | 1,724 | 1,710 | 1,717 | 1,757 | 1,660 | 1,730 |
| Agricultural sciences | 406 | 349 | 314 | 353 | 357 | 293 | 282 | 268 | 265 | 265 |
| Psychology | 980 | 1,059 | 1,081 | 1,022 | 968 | 894 | 823 | 870 | 892 | 859 |
| Social sciences | 1,023 | 1,068 | 1,103 | 1,115 | 1,146 | 1,219 | 1,198 | 1,148 | 1,171 | 1,199 |
| Non-S&E, total | 4,447 | 4,549 | 4,498 | 4,699 | 4,722 | 4,456 | 4,318 | 4,258 | 4,229 | 4,269 |
| Health | 186 | 171 | 198 | 250 | 222 | 207 | 214 | 224 | 243 | 262 |
| Humanities[1] | 1,466 | 1,574 | 1,546 | 1,662 | 1,761 | 1,675 | 1,778 | 1,784 | 1,824 | 1,846 |
| Education | 1,968 | 1,977 | 1,958 | 1,937 | 1,833 | 1,805 | 1,597 | 1,572 | 1,534 | 1,513 |
| Professional/other | 827 | 827 | 796 | 850 | 906 | 769 | 729 | 678 | 628 | 648 |
| Grand total, all fields | 12,685 | 12,843 | 12,868 | 13,056 | 13,054 | 12,751 | 12,530 | 12,437 | 12,118 | 11,821 |
| | U.S. citizens, women | | | | | | | | | |
| Science and engineering, total | 5,238 | 5,162 | 5,503 | 5,703 | 5,888 | 6,055 | 6,221 | 6,487 | 6,409 | 6,607 |
| Engineering, total | 279 | 283 | 296 | 343 | 374 | 417 | 415 | 374 | 426 | 416 |
| Chemical | 51 | 68 | 59 | 57 | 70 | 83 | 61 | 64 | 65 | 91 |
| Civil | 21 | 20 | 30 | 48 | 36 | 37 | 45 | 50 | 54 | 42 |
| Electrical | 44 | 55 | 57 | 64 | 79 | 83 | 74 | 66 | 62 | 67 |
| Mechanical | 34 | 23 | 33 | 32 | 28 | 45 | 46 | 41 | 52 | 47 |
| Other engineering | 129 | 117 | 117 | 142 | 161 | 169 | 189 | 153 | 193 | 169 |
| Sciences, total | 4,959 | 4,879 | 5,207 | 5,360 | 5,514 | 5,638 | 5,806 | 6,113 | 5,983 | 6,191 |
| Physical sciences, total | 412 | 447 | 446 | 453 | 519 | 467 | 472 | 511 | 471 | 483 |
| Astronomy | 7 | 13 | 20 | 20 | 21 | 31 | 25 | 23 | 23 | 33 |
| Chemistry | 336 | 357 | 352 | 345 | 409 | 333 | 351 | 392 | 362 | 375 |
| Physics | 66 | 73 | 71 | 86 | 87 | 101 | 92 | 89 | 80 | 69 |
| Other physical sciences | 3 | 4 | 3 | 2 | 2 | 2 | 4 | 7 | 6 | 6 |
| Earth, atmospheric, & ocean sciences | 148 | 138 | 112 | 125 | 112 | 114 | 146 | 148 | 135 | 155 |
| Mathematics | 93 | 97 | 124 | 122 | 132 | 105 | 143 | 171 | 165 | 144 |
| Computer sciences | 83 | 69 | 82 | 77 | 116 | 77 | 82 | 103 | 90 | 73 |
| Biological sciences | 1,290 | 1,329 | 1,449 | 1,492 | 1,487 | 1,585 | 1,637 | 1,679 | 1,644 | 1,803 |
| Agricultural sciences | 128 | 134 | 124 | 132 | 112 | 145 | 134 | 154 | 144 | 146 |
| Psychology | 1,847 | 1,724 | 1,869 | 1,909 | 1,990 | 2,105 | 2,050 | 2,148 | 2,135 | 2,130 |
| Social sciences | 958 | 941 | 1,001 | 1,050 | 1,046 | 1,040 | 1,142 | 1,199 | 1,199 | 1,257 |
| Non-S&E, total | 5,947 | 6,329 | 6,428 | 6,709 | 6,886 | 6,988 | 6,853 | 7,067 | 6,855 | 7,171 |
| Health | 558 | 606 | 653 | 678 | 675 | 685 | 703 | 798 | 682 | 804 |
| Humanities[1] | 1,369 | 1,483 | 1,574 | 1,649 | 1,810 | 1,872 | 1,875 | 1,948 | 1,939 | 2,039 |
| Education | 3,359 | 3,589 | 3,509 | 3,664 | 3,628 | 3,717 | 3,596 | 3,585 | 3,557 | 3,656 |
| Professional/other | 661 | 651 | 692 | 718 | 773 | 714 | 679 | 736 | 677 | 672 |
| Grand total, all fields | 11,185 | 11,491 | 11,931 | 12,412 | 12,774 | 13,043 | 13,074 | 13,554 | 13,264 | 13,778 |

See explanatory information, if any, and SOURCE at end of table.

BEST COPY AVAILABLE

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000



| Field of study | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|---|---|---|---|---|---|---|---|---|---|
| | U.S. citizens, women, American Indian/Alaskan Native | | | | | | | | | |
| Science and engineering, total | 19 | 27 | 18 | 24 | 26 | 34 | 34 | 42 | 56 | 45 |
| Engineering, total | 2 | 3 | 0 | 2 | 0 | 2 | 3 | 4 | 2 | 4 |
| Chemical | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 1 | 1 |
| Civil | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 |
| Electrical | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Mechanical | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| Other engineering | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 1 |
| Sciences, total | 17 | 24 | 18 | 22 | 26 | 32 | 31 | 38 | 54 | 41 |
| Physical sciences, total | 2 | 2 | 2 | 1 | 2 | 1 | 0 | 1 | 3 | 2 |
| Astronomy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Chemistry | 2 | 2 | 1 | 0 | 2 | 1 | 0 | 1 | 2 | 1 |
| Physics | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, & ocean sciences | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 1 |
| Mathematics | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 1 |
| Computer sciences | 0 | 0 | 1 | 1 | 0 | 2 | 1 | 0 | 1 | 0 |
| Biological sciences | 4 | 5 | 2 | 5 | 5 | 9 | 3 | 6 | 10 | 7 |
| Agricultural sciences | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 2 | 1 | 1 |
| Psychology | 8 | 9 | 9 | 7 | 8 | 9 | 12 | 18 | 23 | 19 |
| Social sciences | 2 | 7 | 4 | 8 | 10 | 7 | 14 | 8 | 13 | 10 |
| Non-S&E, total | 37 | 40 | 42 | 48 | 42 | 50 | 54 | 43 | 64 | 48 |
| Health | 2 | 2 | 6 | 5 | 7 | 3 | 4 | 3 | 6 | 3 |
| Humanities [1] | 7 | 6 | 3 | 8 | 8 | 8 | 11 | 7 | 10 | 9 |
| Education | 26 | 30 | 30 | 27 | 24 | 38 | 33 | 24 | 40 | 34 |
| Professional/other | 2 | 2 | 3 | 8 | 3 | 1 | 6 | 9 | 8 | 2 |
| Grand total, all fields | 56 | 67 | 60 | 72 | 68 | 84 | 88 | 85 | 120 | 93 |
| | U.S. citizens, women, Asian/Pacific Islander | | | | | | | | | |
| Science and engineering, total | 192 | 201 | 233 | 244 | 323 | 324 | 372 | 351 | 367 | 406 |
| Engineering, total | 27 | 33 | 24 | 31 | 52 | 51 | 46 | 52 | 42 | 58 |
| Chemical | 7 | 7 | 4 | 7 | 11 | 10 | 3 | 9 | 9 | 15 |
| Civil | 1 | 1 | 0 | 0 | 2 | 6 | 3 | 3 | 1 | 6 |
| Electrical | 3 | 12 | 7 | 11 | 12 | 14 | 16 | 18 | 12 | 15 |
| Mechanical | 3 | 2 | 1 | 5 | 4 | 4 | 8 | 7 | 6 | 9 |
| Other engineering | 13 | 11 | 12 | 8 | 23 | 17 | 16 | 15 | 14 | 13 |
| Sciences, total | 165 | 168 | 209 | 213 | 271 | 273 | 326 | 299 | 325 | 348 |
| Physical sciences, total | 20 | 36 | 42 | 34 | 49 | 33 | 45 | 34 | 43 | 38 |
| Astronomy | 0 | 1 | 1 | 0 | 1 | 2 | 0 | 1 | 0 | 2 |
| Chemistry | 15 | 29 | 37 | 27 | 39 | 23 | 31 | 22 | 37 | 27 |
| Physics | 5 | 6 | 4 | 7 | 9 | 8 | 14 | 11 | 6 | 8 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Earth, atmospheric, & ocean sciences | 3 | 3 | 2 | 1 | 1 | 3 | 5 | 3 | 4 | 5 |
| Mathematics | 5 | 4 | 10 | 4 | 7 | 8 | 6 | 13 | 8 | 10 |
| Computer sciences | 7 | 3 | 4 | 4 | 8 | 9 | 11 | 10 | 9 | 8 |
| Biological sciences | 69 | 63 | 88 | 80 | 102 | 129 | 126 | 119 | 128 | 152 |
| Agricultural sciences | 3 | 5 | 4 | 2 | 5 | 7 | 5 | 1 | 10 | 3 |
| Psychology | 33 | 30 | 32 | 61 | 54 | 57 | 80 | 70 | 76 | 84 |
| Social sciences | 25 | 24 | 27 | 27 | 45 | 27 | 48 | 49 | 47 | 48 |
| Non-S&E, total | 114 | 116 | 105 | 115 | 151 | 151 | 188 | 171 | 183 | 240 |
| Health | 13 | 23 | 10 | 21 | 15 | 21 | 27 | 19 | 28 | 37 |
| Humanities [1] | 26 | 24 | 36 | 28 | 58 | 53 | 63 | 64 | 72 | 85 |
| Education | 59 | 58 | 51 | 53 | 57 | 61 | 76 | 64 | 62 | 85 |
| Professional/other | 16 | 11 | 8 | 13 | 21 | 16 | 22 | 24 | 21 | 33 |
| Grand total, all fields | 306 | 317 | 338 | 359 | 474 | 475 | 560 | 522 | 550 | 646 |

See explanatory information, if any, and SOURCE at end of table.

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000



| Field of study | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|---|---|---|---|---|---|---|---|---|---|
| | U.S. citizens, women, black | | | | | | | | | |
| Science and engineering, total | 178 | 161 | 196 | 199 | 252 | 238 | 274 | 335 | 343 | 389 |
| Engineering, total | 8 | 6 | 11 | 13 | 13 | 19 | 22 | 21 | 23 | 25 |
| Chemical | 1 | 1 | 3 | 4 | 1 | 5 | 6 | 1 | 4 | 6 |
| Civil | 2 | 0 | 2 | 2 | 3 | 1 | 0 | 2 | 2 | 1 |
| Electrical | 2 | 2 | 2 | 3 | 4 | 5 | 3 | 4 | 5 | 2 |
| Mechanical | 1 | 0 | 0 | 1 | 0 | 3 | 1 | 0 | 1 | 5 |
| Other engineering | 2 | 3 | 4 | 3 | 5 | 5 | 12 | 14 | 11 | 11 |
| Sciences, total | 170 | 155 | 185 | 186 | 239 | 219 | 252 | 314 | 320 | 364 |
| Physical sciences, total | 4 | 5 | 9 | 12 | 17 | 12 | 10 | 26 | 24 | 18 |
| Astronomy | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 1 |
| Chemistry | 4 | 4 | 8 | 8 | 16 | 10 | 8 | 23 | 19 | 16 |
| Physics | 0 | 0 | 0 | 4 | 1 | 2 | 1 | 3 | 3 | 1 |
| Other physical sciences | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, & ocean sciences | 1 | 1 | 0 | 1 | 0 | 2 | 1 | 3 | 5 | 4 |
| Mathematics | 4 | 0 | 1 | 3 | 1 | 2 | 2 | 7 | 6 | 7 |
| Computer sciences | 4 | 1 | 3 | 2 | 4 | 3 | 1 | 8 | 8 | 5 |
| Biological sciences | 26 | 22 | 30 | 43 | 39 | 36 | 57 | 66 | 62 | 72 |
| Agricultural sciences | 1 | 1 | 2 | 3 | 5 | 0 | 5 | 1 | 6 | 5 |
| Psychology | 84 | 76 | 74 | 72 | 108 | 107 | 107 | 112 | 130 | 146 |
| Social sciences | 46 | 49 | 66 | 50 | 65 | 57 | 69 | 91 | 79 | 107 |
| Non-S&E, total | 411 | 414 | 474 | 491 | 565 | 541 | 542 | 621 | 649 | 699 |
| Health | 22 | 24 | 37 | 30 | 41 | 32 | 39 | 49 | 42 | 56 |
| Humanities[1] | 47 | 42 | 38 | 52 | 54 | 60 | 71 | 69 | 92 | 86 |
| Education | 288 | 319 | 347 | 355 | 406 | 396 | 375 | 449 | 446 | 503 |
| Professional/other | 54 | 29 | 52 | 54 | 64 | 53 | 57 | 54 | 69 | 54 |
| Grand total, all fields | 589 | 575 | 670 | 690 | 817 | 779 | 816 | 956 | 992 | 1,088 |
| | U.S. citizens, women, Hispanic | | | | | | | | | |
| Science and engineering, total | 169 | 170 | 188 | 201 | 199 | 236 | 234 | 302 | 323 | 299 |
| Engineering, total | 10 | 11 | 11 | 5 | 10 | 14 | 21 | 13 | 22 | 10 |
| Chemical | 4 | 2 | 3 | 0 | 2 | 5 | 2 | 0 | 3 | 3 |
| Civil | 2 | 1 | 2 | 2 | 1 | 0 | 1 | 3 | 6 | 1 |
| Electrical | 0 | 2 | 3 | 0 | 1 | 4 | 6 | 2 | 4 | 0 |
| Mechanical | 2 | 2 | 0 | 1 | 0 | 0 | 3 | 1 | 1 | 1 |
| Other engineering | 2 | 4 | 3 | 2 | 6 | 5 | 9 | 7 | 8 | 5 |
| Sciences, total | 159 | 159 | 177 | 196 | 189 | 222 | 213 | 289 | 301 | 289 |
| Physical sciences, total | 10 | 15 | 16 | 17 | 19 | 9 | 12 | 10 | 21 | 22 |
| Astronomy | 0 | 1 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 0 |
| Chemistry | 8 | 11 | 14 | 13 | 14 | 6 | 10 | 9 | 20 | 20 |
| Physics | 2 | 3 | 2 | 4 | 3 | 3 | 1 | 1 | 1 | 2 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, & ocean sciences | 1 | 4 | 2 | 2 | 3 | 4 | 5 | 5 | 4 | 3 |
| Mathematics | 3 | 3 | 1 | 3 | 3 | 0 | 5 | 7 | 3 | 6 |
| Computer sciences | 1 | 1 | 1 | 0 | 4 | 5 | 2 | 1 | 3 | 2 |
| Biological sciences | 35 | 35 | 46 | 50 | 35 | 51 | 56 | 71 | 68 | 81 |
| Agricultural sciences | 1 | 2 | 5 | 7 | 1 | 2 | 3 | 9 | 4 | 7 |
| Psychology | 66 | 70 | 78 | 86 | 94 | 116 | 101 | 143 | 146 | 133 |
| Social sciences | 42 | 29 | 28 | 31 | 30 | 35 | 29 | 43 | 52 | 35 |
| Non-S&E, total | 192 | 198 | 222 | 245 | 255 | 238 | 281 | 290 | 329 | 318 |
| Health | 8 | 8 | 15 | 17 | 14 | 20 | 22 | 25 | 28 | 23 |
| Humanities[1] | 56 | 47 | 66 | 62 | 63 | 73 | 82 | 72 | 83 | 94 |
| Education | 112 | 126 | 125 | 150 | 153 | 120 | 160 | 174 | 187 | 174 |
| Professional/other | 16 | 17 | 16 | 16 | 25 | 25 | 17 | 19 | 31 | 27 |
| Grand total, all fields | 361 | 368 | 410 | 446 | 454 | 474 | 515 | 592 | 652 | 617 |

See explanatory information, if any, and SOURCE at end of table.

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000



| Field of study | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|---|---|---|---|---|---|---|---|---|---|
| | U.S. citizens, women, Puerto Rican | | | | | | | | | |
| Science and engineering, total | 47 | 49 | 42 | 59 | 63 | 68 | 73 | 104 | 95 | 94 |
| Engineering, total | 2 | 3 | 2 | 0 | 2 | 5 | 4 | 1 | 8 | 4 |
| Chemical | 1 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 1 | 2 |
| Civil | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Electrical | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 2 | 0 |
| Mechanical | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other engineering | 1 | 1 | 0 | 0 | 1 | 3 | 3 | 1 | 4 | 2 |
| Sciences, total | 45 | 46 | 40 | 59 | 61 | 63 | 69 | 103 | 87 | 90 |
| Physical sciences, total | 6 | 6 | 5 | 7 | 9 | 4 | 2 | 5 | 9 | 10 |
| Astronomy | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Chemistry | 5 | 5 | 5 | 6 | 8 | 3 | 2 | 5 | 9 | 10 |
| Physics | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, & ocean sciences | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 3 | 1 | 0 |
| Mathematics | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 3 | 0 | 1 |
| Computer sciences | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 0 |
| Biological sciences | 11 | 11 | 11 | 14 | 9 | 18 | 16 | 23 | 23 | 22 |
| Agricultural sciences | 0 | 0 | 3 | 3 | 0 | 1 | 1 | 1 | 1 | 3 |
| Psychology | 14 | 19 | 11 | 30 | 31 | 33 | 36 | 59 | 40 | 48 |
| Social sciences | 14 | 9 | 9 | 5 | 10 | 6 | 11 | 8 | 12 | 6 |
| Non-S&E, total | 60 | 70 | 69 | 75 | 86 | 69 | 86 | 76 | 98 | 89 |
| Health | 1 | 1 | 3 | 4 | 5 | 5 | 7 | 4 | 6 | 6 |
| Humanities[1] | 19 | 12 | 18 | 22 | 16 | 22 | 23 | 17 | 17 | 25 |
| Education | 36 | 53 | 45 | 45 | 50 | 34 | 50 | 49 | 66 | 48 |
| Professional/other | 4 | 4 | 3 | 4 | 15 | 8 | 6 | 6 | 9 | 10 |
| Grand total, all fields | 107 | 119 | 111 | 134 | 149 | 137 | 159 | 180 | 193 | 183 |
| | U.S. citizens, women, Mexican American | | | | | | | | | |
| Science and engineering, total | 41 | 38 | 42 | 54 | 57 | 52 | 66 | 83 | 72 | 84 |
| Engineering, total | 2 | 0 | 1 | 2 | 1 | 3 | 7 | 3 | 4 | 3 |
| Chemical | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 1 |
| Civil | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 0 |
| Electrical | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 1 | 0 |
| Mechanical | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other engineering | 0 | 0 | 1 | 2 | 0 | 1 | 2 | 2 | 1 | 2 |
| Sciences, total | 39 | 38 | 41 | 52 | 56 | 49 | 59 | 80 | 68 | 81 |
| Physical sciences, total | 3 | 2 | 2 | 3 | 4 | 3 | 2 | 3 | 5 | 3 |
| Astronomy | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Chemistry | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 3 | 4 | 3 |
| Physics | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 0 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, & ocean sciences | 0 | 2 | 0 | 0 | 1 | 2 | 1 | 1 | 1 | 1 |
| Mathematics | 2 | 0 | 0 | 1 | 2 | 0 | 1 | 3 | 2 | 4 |
| Computer sciences | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 1 |
| Biological sciences | 7 | 11 | 10 | 13 | 9 | 12 | 20 | 20 | 16 | 19 |
| Agricultural sciences | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 3 | 0 | 2 |
| Psychology | 15 | 17 | 24 | 21 | 33 | 20 | 29 | 33 | 26 | 38 |
| Social sciences | 12 | 5 | 4 | 13 | 4 | 12 | 6 | 17 | 18 | 13 |
| Non-S&E, total | 55 | 52 | 71 | 86 | 69 | 70 | 75 | 114 | 111 | 118 |
| Health | 3 | 5 | 5 | 3 | 5 | 4 | 7 | 14 | 11 | 9 |
| Humanities[1] | 12 | 9 | 16 | 17 | 12 | 18 | 16 | 23 | 20 | 35 |
| Education | 37 | 32 | 44 | 63 | 51 | 41 | 48 | 71 | 67 | 68 |
| Professional/other | 3 | 6 | 6 | 3 | 1 | 7 | 4 | 6 | 13 | 6 |
| Grand total, all fields | 96 | 90 | 113 | 140 | 126 | 122 | 141 | 197 | 183 | 202 |

See explanatory information, if any, and SOURCE at end of table.

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000



| Field of study | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|---|---|---|---|---|---|---|---|---|---|
| | U.S. citizens, women, other Hispanic | | | | | | | | | |
| Science and engineering, total | 81 | 83 | 104 | 88 | 79 | 116 | 95 | 115 | 156 | 121 |
| Engineering, total | 6 | 8 | 8 | 3 | 7 | 6 | 10 | 9 | 10 | 3 |
| Chemical | 2 | 2 | 3 | 0 | 0 | 2 | 1 | 0 | 2 | 0 |
| Civil | 2 | 1 | 1 | 2 | 1 | 0 | 0 | 2 | 3 | 1 |
| Electrical | 0 | 1 | 2 | 0 | 1 | 3 | 2 | 2 | 1 | 0 |
| Mechanical | 1 | 1 | 0 | 1 | 0 | 0 | 3 | 1 | 1 | 1 |
| Other engineering | 1 | 3 | 2 | 0 | 5 | 1 | 4 | 4 | 3 | 1 |
| Sciences, total | 75 | 75 | 96 | 85 | 72 | 110 | 85 | 106 | 146 | 118 |
| Physical sciences, total | 1 | 7 | 9 | 7 | 6 | 2 | 8 | 2 | 7 | 9 |
| Astronomy | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| Chemistry | 1 | 4 | 8 | 5 | 4 | 1 | 6 | 1 | 7 | 7 |
| Physics | 0 | 2 | 1 | 2 | 2 | 1 | 1 | 1 | 0 | 2 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, & ocean sciences | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 |
| Mathematics | 1 | 2 | 1 | 2 | 0 | 0 | 3 | 1 | 1 | 1 |
| Computer sciences | 1 | 1 | 0 | 0 | 2 | 4 | 2 | 0 | 2 | 1 |
| Biological sciences | 17 | 13 | 25 | 23 | 17 | 21 | 20 | 28 | 29 | 40 |
| Agricultural sciences | 1 | 1 | 1 | 3 | 0 | 1 | 2 | 5 | 3 | 2 |
| Psychology | 37 | 34 | 43 | 35 | 30 | 63 | 36 | 51 | 80 | 47 |
| Social sciences | 16 | 15 | 15 | 13 | 16 | 17 | 12 | 18 | 22 | 16 |
| Non-S&E, total | 77 | 76 | 82 | 84 | 100 | 99 | 120 | 100 | 120 | 111 |
| Health | 4 | 2 | 7 | 10 | 4 | 11 | 8 | 7 | 11 | 8 |
| Humanities[1] | 25 | 26 | 32 | 23 | 35 | 33 | 43 | 32 | 46 | 34 |
| Education | 39 | 41 | 36 | 42 | 52 | 45 | 62 | 54 | 54 | 58 |
| Professional/other | 9 | 7 | 7 | 9 | 9 | 10 | 7 | 7 | 9 | 11 |
| Grand total, all fields | 158 | 159 | 186 | 172 | 179 | 215 | 215 | 215 | 276 | 232 |
| | U.S. citizens, women, white | | | | | | | | | |
| Science and engineering, total | 4,602 | 4,558 | 4,841 | 5,000 | 5,047 | 5,165 | 5,081 | 5,274 | 5,246 | 5,342 |
| Engineering, total | 221 | 227 | 248 | 291 | 297 | 324 | 312 | 278 | 332 | 314 |
| Chemical | 38 | 56 | 49 | 45 | 56 | 63 | 48 | 50 | 46 | 65 |
| Civil | 15 | 17 | 25 | 44 | 30 | 29 | 38 | 41 | 44 | 32 |
| Electrical | 33 | 38 | 45 | 50 | 60 | 59 | 46 | 42 | 39 | 49 |
| Mechanical | 27 | 19 | 31 | 25 | 24 | 37 | 32 | 32 | 44 | 31 |
| Other engineering | 108 | 97 | 98 | 127 | 127 | 136 | 148 | 113 | 159 | 137 |
| Sciences, total | 4,381 | 4,331 | 4,593 | 4,709 | 4,750 | 4,841 | 4,769 | 4,996 | 4,914 | 5,028 |
| Physical sciences, total | 372 | 382 | 375 | 387 | 426 | 406 | 391 | 430 | 374 | 396 |
| Astronomy | 6 | 10 | 19 | 19 | 18 | 29 | 22 | 22 | 20 | 27 |
| Chemistry | 305 | 307 | 291 | 296 | 333 | 290 | 292 | 328 | 281 | 308 |
| Physics | 58 | 61 | 63 | 70 | 73 | 85 | 73 | 73 | 68 | 56 |
| Other physical sciences | 3 | 4 | 2 | 2 | 2 | 2 | 4 | 7 | 5 | 5 |
| Earth, atmospheric, & ocean sciences | 137 | 130 | 108 | 120 | 106 | 104 | 126 | 134 | 116 | 136 |
| Mathematics | 79 | 88 | 111 | 111 | 119 | 93 | 124 | 138 | 147 | 119 |
| Computer sciences | 70 | 64 | 72 | 70 | 99 | 56 | 63 | 77 | 67 | 57 |
| Biological sciences | 1,140 | 1,196 | 1,274 | 1,305 | 1,299 | 1,345 | 1,353 | 1,382 | 1,356 | 1,463 |
| Agricultural sciences | 121 | 126 | 112 | 118 | 99 | 131 | 115 | 135 | 120 | 129 |
| Psychology | 1,636 | 1,521 | 1,670 | 1,672 | 1,711 | 1,807 | 1,658 | 1,728 | 1,742 | 1,705 |
| Social sciences | 826 | 824 | 871 | 926 | 891 | 899 | 939 | 972 | 992 | 1,023 |
| Non-S&E, total | 5,139 | 5,511 | 5,552 | 5,760 | 5,824 | 5,949 | 5,562 | 5,757 | 5,542 | 5,748 |
| Health | 505 | 543 | 584 | 596 | 587 | 599 | 598 | 683 | 568 | 672 |
| Humanities[1] | 1,219 | 1,353 | 1,423 | 1,488 | 1,613 | 1,658 | 1,590 | 1,677 | 1,647 | 1,729 |
| Education | 2,852 | 3,030 | 2,939 | 3,052 | 2,968 | 3,077 | 2,810 | 2,785 | 2,781 | 2,799 |
| Professional/other | 563 | 585 | 606 | 624 | 656 | 615 | 564 | 612 | 546 | 548 |
| Grand total, all fields | 9,741 | 10,069 | 10,393 | 10,760 | 10,871 | 11,114 | 10,643 | 11,031 | 10,788 | 11,090 |

See explanatory information, if any, and SOURCE at end of table.

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000



| Field of study | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Non-U.S. citizens with permanent visas | | | | | | | | | |
| Science and engineering, total | 1,285 | 1,383 | 1,641 | 3,021 | 3,509 | 3,009 | 2,280 | 2,016 | 1,652 | 1,409 |
| Engineering, total | 388 | 411 | 469 | 838 | 956 | 793 | 593 | 479 | 403 | 350 |
| Chemical | 51 | 60 | 53 | 87 | 90 | 73 | 88 | 46 | 38 | 42 |
| Civil | 40 | 51 | 59 | 89 | 103 | 93 | 78 | 51 | 51 | 41 |
| Electrical | 132 | 122 | 165 | 265 | 288 | 221 | 187 | 166 | 127 | 116 |
| Mechanical | 62 | 74 | 87 | 179 | 180 | 152 | 82 | 82 | 65 | 56 |
| Other engineering | 103 | 104 | 105 | 218 | 295 | 254 | 158 | 134 | 122 | 95 |
| Sciences, total | 897 | 972 | 1,172 | 2,183 | 2,553 | 2,216 | 1,687 | 1,537 | 1,249 | 1,059 |
| Physical sciences, total | 180 | 200 | 237 | 591 | 704 | 493 | 366 | 313 | 242 | 199 |
| Astronomy | 2 | 6 | 5 | 9 | 21 | 12 | 7 | 15 | 7 | 12 |
| Chemistry | 110 | 113 | 128 | 325 | 386 | 293 | 205 | 179 | 150 | 120 |
| Physics | 68 | 81 | 102 | 255 | 295 | 187 | 152 | 117 | 84 | 66 |
| Other physical sciences | 0 | 0 | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 1 |
| Earth, atmospheric, & ocean sciences | 26 | 35 | 41 | 106 | 116 | 96 | 70 | 62 | 51 | 34 |
| Mathematics | 55 | 53 | 94 | 153 | 217 | 158 | 99 | 93 | 66 | 55 |
| Computer sciences | 63 | 67 | 84 | 117 | 132 | 92 | 91 | 84 | 71 | 71 |
| Biological sciences | 211 | 240 | 303 | 666 | 835 | 818 | 584 | 551 | 464 | 365 |
| Agricultural sciences | 56 | 62 | 49 | 97 | 106 | 103 | 83 | 79 | 51 | 55 |
| Psychology | 65 | 86 | 90 | 84 | 101 | 104 | 89 | 93 | 70 | 75 |
| Social sciences | 241 | 229 | 274 | 369 | 342 | 352 | 305 | 262 | 234 | 205 |
| Non-S&E, total | 572 | 597 | 618 | 726 | 809 | 758 | 650 | 681 | 654 | 540 |
| Health | 60 | 46 | 60 | 89 | 106 | 83 | 69 | 82 | 77 | 75 |
| Humanities[1] | 219 | 229 | 238 | 280 | 308 | 319 | 289 | 304 | 283 | 233 |
| Education | 174 | 165 | 177 | 199 | 218 | 196 | 165 | 171 | 178 | 124 |
| Professional/other | 119 | 157 | 143 | 158 | 177 | 160 | 127 | 124 | 116 | 108 |
| Grand total, all fields | 1,857 | 1,980 | 2,259 | 3,747 | 4,318 | 3,767 | 2,930 | 2,697 | 2,306 | 1,949 |
| | Non-U.S. citizens with permanent visas, men | | | | | | | | | |
| Science and engineering, total | 926 | 968 | 1,120 | 2,230 | 2,485 | 2,101 | 1,508 | 1,340 | 1,051 | 902 |
| Engineering, total | 351 | 366 | 417 | 733 | 810 | 685 | 495 | 402 | 337 | 282 |
| Chemical | 42 | 46 | 48 | 66 | 72 | 58 | 72 | 34 | 28 | 34 |
| Civil | 36 | 48 | 57 | 82 | 87 | 83 | 65 | 43 | 44 | 35 |
| Electrical | 128 | 110 | 142 | 241 | 247 | 198 | 155 | 141 | 107 | 93 |
| Mechanical | 59 | 72 | 84 | 157 | 159 | 137 | 73 | 73 | 57 | 47 |
| Other engineering | 86 | 90 | 86 | 187 | 245 | 209 | 130 | 111 | 101 | 73 |
| Sciences, total | 575 | 602 | 703 | 1,497 | 1,675 | 1,416 | 1,013 | 938 | 714 | 620 |
| Physical sciences, total | 138 | 133 | 162 | 419 | 515 | 350 | 251 | 221 | 160 | 135 |
| Astronomy | 2 | 4 | 2 | 8 | 17 | 8 | 6 | 11 | 5 | 9 |
| Chemistry | 78 | 69 | 79 | 206 | 258 | 187 | 125 | 109 | 86 | 73 |
| Physics | 58 | 60 | 79 | 204 | 239 | 154 | 120 | 99 | 68 | 52 |
| Other physical sciences | 0 | 0 | 2 | 1 | 1 | 1 | 0 | 2 | 1 | 1 |
| Earth, atmospheric, & ocean sciences | 17 | 26 | 33 | 87 | 84 | 80 | 52 | 39 | 35 | 22 |
| Mathematics | 36 | 33 | 54 | 124 | 166 | 118 | 65 | 66 | 39 | 36 |
| Computer sciences | 52 | 53 | 57 | 100 | 105 | 78 | 73 | 64 | 57 | 58 |
| Biological sciences | 111 | 131 | 168 | 415 | 463 | 462 | 302 | 312 | 249 | 184 |
| Agricultural sciences | 47 | 46 | 39 | 69 | 83 | 73 | 62 | 50 | 35 | 36 |
| Psychology | 22 | 30 | 21 | 26 | 35 | 26 | 27 | 32 | 21 | 30 |
| Social sciences | 152 | 150 | 169 | 257 | 224 | 229 | 181 | 154 | 118 | 119 |
| Non-S&E, total | 298 | 325 | 351 | 407 | 424 | 384 | 327 | 338 | 327 | 237 |
| Health | 31 | 23 | 34 | 45 | 62 | 45 | 33 | 37 | 44 | 32 |
| Humanities[1] | 97 | 104 | 116 | 141 | 138 | 146 | 132 | 148 | 144 | 100 |
| Education | 92 | 84 | 96 | 107 | 94 | 89 | 75 | 72 | 67 | 43 |
| Professional/other | 78 | 114 | 105 | 114 | 130 | 104 | 87 | 81 | 72 | 62 |
| Grand total, all fields | 1,224 | 1,293 | 1,471 | 2,637 | 2,909 | 2,485 | 1,835 | 1,678 | 1,378 | 1,139 |

See explanatory information, if any, and SOURCE at end of table.

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000



| Field of study | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Non-U.S. citizens with permanent visas, women | | | | | | | | | |
| Science and engineering, total | 359 | 415 | 521 | 791 | 1,024 | 908 | 772 | 676 | 601 | 507 |
| Engineering, total | 37 | 45 | 52 | 105 | 146 | 108 | 98 | 77 | 66 | 68 |
| Chemical | 9 | 14 | 5 | 21 | 18 | 15 | 16 | 12 | 10 | 8 |
| Civil | 4 | 3 | 2 | 7 | 16 | 10 | 13 | 8 | 7 | 6 |
| Electrical | 4 | 12 | 23 | 24 | 41 | 23 | 32 | 25 | 20 | 23 |
| Mechanical | 3 | 2 | 3 | 22 | 21 | 15 | 9 | 9 | 8 | 9 |
| Other engineering | 17 | 14 | 19 | 31 | 50 | 45 | 28 | 23 | 21 | 22 |
| Sciences, total | 322 | 370 | 469 | 686 | 878 | 800 | 674 | 599 | 535 | 439 |
| Physical sciences, total | 42 | 67 | 75 | 172 | 189 | 143 | 115 | 92 | 82 | 64 |
| Astronomy | 0 | 2 | 3 | 1 | 4 | 4 | 1 | 4 | 2 | 3 |
| Chemistry | 32 | 44 | 49 | 119 | 128 | 106 | 80 | 70 | 64 | 47 |
| Physics | 10 | 21 | 23 | 51 | 56 | 33 | 32 | 18 | 16 | 14 |
| Other physical sciences | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 |
| Earth, atmospheric, & ocean sciences | 9 | 9 | 8 | 19 | 32 | 16 | 18 | 23 | 16 | 12 |
| Mathematics | 19 | 20 | 40 | 29 | 51 | 40 | 34 | 27 | 27 | 19 |
| Computer sciences | 11 | 14 | 27 | 17 | 27 | 14 | 18 | 20 | 14 | 13 |
| Biological sciences | 100 | 109 | 135 | 251 | 372 | 356 | 282 | 239 | 215 | 181 |
| Agricultural sciences | 9 | 16 | 10 | 28 | 23 | 30 | 21 | 29 | 16 | 19 |
| Psychology | 43 | 56 | 69 | 58 | 66 | 78 | 62 | 61 | 49 | 45 |
| Social sciences | 89 | 79 | 105 | 112 | 118 | 123 | 124 | 108 | 116 | 86 |
| Non-S&E, total | 274 | 272 | 267 | 319 | 385 | 374 | 323 | 343 | 327 | 303 |
| Health | 29 | 23 | 26 | 44 | 44 | 38 | 36 | 45 | 33 | 43 |
| Humanities[1] | 122 | 125 | 122 | 139 | 170 | 173 | 157 | 156 | 139 | 133 |
| Education | 82 | 81 | 81 | 92 | 124 | 107 | 90 | 99 | 111 | 81 |
| Professional/other | 41 | 43 | 38 | 44 | 47 | 56 | 40 | 43 | 44 | 46 |
| Grand total, all fields | 633 | 687 | 788 | 1,110 | 1,409 | 1,282 | 1,095 | 1,019 | 928 | 810 |
| | Non-U.S. citizens with temporary visas | | | | | | | | | |
| Science and engineering, total | 7,641 | 8,092 | 8,113 | 7,521 | 6,993 | 7,806 | 7,499 | 7,774 | 7,236 | 7,648 |
| Engineering, total | 2,633 | 2,743 | 2,784 | 2,653 | 2,524 | 2,720 | 2,551 | 2,582 | 2,190 | 2,444 |
| Chemical | 281 | 339 | 336 | 336 | 318 | 399 | 343 | 373 | 281 | 308 |
| Civil | 353 | 357 | 380 | 385 | 337 | 369 | 310 | 316 | 252 | 280 |
| Electrical | 690 | 725 | 703 | 735 | 712 | 749 | 711 | 709 | 636 | 777 |
| Mechanical | 493 | 538 | 554 | 459 | 437 | 431 | 448 | 454 | 354 | 431 |
| Other engineering | 816 | 784 | 811 | 738 | 720 | 772 | 739 | 730 | 667 | 648 |
| Sciences, total | 5,008 | 5,349 | 5,329 | 4,868 | 4,469 | 5,086 | 4,948 | 5,192 | 5,046 | 5,204 |
| Physical sciences, total | 1,257 | 1,346 | 1,263 | 1,107 | 930 | 1,140 | 1,083 | 1,202 | 1,127 | 1,156 |
| Astronomy | 37 | 28 | 34 | 32 | 28 | 42 | 37 | 52 | 37 | 43 |
| Chemistry | 689 | 729 | 675 | 597 | 493 | 613 | 598 | 658 | 623 | 648 |
| Physics | 525 | 581 | 550 | 471 | 399 | 482 | 446 | 487 | 462 | 457 |
| Other physical sciences | 6 | 8 | 4 | 7 | 10 | 3 | 2 | 5 | 5 | 8 |
| Earth, atmospheric, & ocean sciences | 185 | 236 | 235 | 197 | 173 | 205 | 229 | 216 | 242 | 202 |
| Mathematics | 506 | 511 | 517 | 448 | 382 | 442 | 441 | 447 | 444 | 442 |
| Computer sciences | 340 | 365 | 348 | 343 | 365 | 376 | 330 | 329 | 331 | 361 |
| Biological sciences | 1,059 | 1,159 | 1,246 | 1,058 | 968 | 1,240 | 1,320 | 1,333 | 1,286 | 1,390 |
| Agricultural sciences | 435 | 472 | 447 | 453 | 429 | 441 | 391 | 462 | 459 | 416 |
| Psychology | 133 | 156 | 148 | 151 | 164 | 181 | 137 | 168 | 153 | 164 |
| Social sciences | 1,093 | 1,104 | 1,125 | 1,111 | 1,058 | 1,061 | 1,017 | 1,035 | 1,004 | 1,073 |
| Non-S&E, total | 1,670 | 1,861 | 1,819 | 1,885 | 1,817 | 1,808 | 1,680 | 1,719 | 1,821 | 2,000 |
| Health | 171 | 226 | 214 | 230 | 246 | 267 | 273 | 287 | 286 | 306 |
| Humanities[1] | 444 | 495 | 466 | 529 | 548 | 522 | 529 | 533 | 536 | 626 |
| Education | 503 | 553 | 546 | 537 | 502 | 477 | 408 | 488 | 519 | 541 |
| Professional/other | 552 | 587 | 593 | 589 | 521 | 542 | 470 | 411 | 480 | 527 |
| Grand total, all fields | 9,311 | 9,953 | 9,932 | 9,406 | 8,810 | 9,614 | 9,179 | 9,493 | 9,057 | 9,648 |

See explanatory information, if any, and SOURCE at end of table.

BEST COPY AVAILABLE

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000



| Field of study | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Non-U.S. citizens with temporary visas, men | | | | | | | | | |
| Science and engineering, total | 6,412 | 6,741 | 6,658 | 6,200 | 5,748 | 6,310 | 5,978 | 6,020 | 5,589 | 5,784 |
| Engineering, total | 2,484 | 2,574 | 2,623 | 2,475 | 2,365 | 2,492 | 2,340 | 2,308 | 1,931 | 2,142 |
| Chemical | 259 | 308 | 309 | 301 | 297 | 354 | 300 | 313 | 237 | 260 |
| Civil | 337 | 330 | 358 | 360 | 314 | 338 | 289 | 277 | 226 | 243 |
| Electrical | 659 | 679 | 660 | 679 | 668 | 697 | 675 | 657 | 574 | 689 |
| Mechanical | 473 | 518 | 535 | 445 | 424 | 415 | 419 | 425 | 323 | 396 |
| Other engineering | 756 | 739 | 761 | 690 | 662 | 688 | 657 | 636 | 571 | 554 |
| Sciences, total | 3,928 | 4,167 | 4,035 | 3,725 | 3,383 | 3,818 | 3,638 | 3,712 | 3,658 | 3,642 |
| Physical sciences, total | 1,041 | 1,098 | 1,015 | 908 | 770 | 931 | 860 | 923 | 880 | 905 |
| Astronomy | 30 | 24 | 32 | 28 | 24 | 36 | 27 | 34 | 30 | 38 |
| Chemistry | 547 | 556 | 503 | 440 | 378 | 465 | 445 | 455 | 443 | 475 |
| Physics | 460 | 510 | 477 | 433 | 360 | 428 | 388 | 431 | 402 | 386 |
| Other physical sciences | 4 | 8 | 3 | 7 | 8 | 2 | 0 | 3 | 5 | 6 |
| Earth, atmospheric, & ocean sciences | 165 | 198 | 202 | 158 | 151 | 169 | 193 | 175 | 195 | 144 |
| Mathematics | 420 | 427 | 422 | 364 | 304 | 359 | 366 | 362 | 367 | 359 |
| Computer sciences | 317 | 329 | 322 | 302 | 322 | 335 | 292 | 306 | 283 | 312 |
| Biological sciences | 694 | 787 | 809 | 703 | 634 | 799 | 816 | 795 | 818 | 836 |
| Agricultural sciences | 366 | 391 | 357 | 366 | 340 | 340 | 298 | 355 | 343 | 312 |
| Psychology | 77 | 81 | 64 | 71 | 79 | 87 | 58 | 67 | 70 | 68 |
| Social sciences | 848 | 856 | 844 | 853 | 783 | 798 | 755 | 729 | 702 | 706 |
| Non-S&E, total | 1,105 | 1,222 | 1,205 | 1,129 | 1,110 | 1,090 | 998 | 1,005 | 1,045 | 1,056 |
| Health | 101 | 159 | 138 | 115 | 142 | 151 | 135 | 157 | 139 | 143 |
| Humanities[1] | 255 | 280 | 275 | 294 | 309 | 280 | 295 | 274 | 297 | 294 |
| Education | 288 | 299 | 306 | 269 | 244 | 242 | 203 | 249 | 245 | 245 |
| Professional/other | 461 | 484 | 486 | 451 | 415 | 417 | 365 | 325 | 364 | 374 |
| Grand total, all fields | 7,517 | 7,963 | 7,863 | 7,329 | 6,858 | 7,400 | 6,976 | 7,025 | 6,634 | 6,840 |
| | Non-U.S. citizens with temporary visas, women | | | | | | | | | |
| Science and engineering, total | 1,229 | 1,351 | 1,455 | 1,321 | 1,245 | 1,496 | 1,521 | 1,754 | 1,647 | 1,864 |
| Engineering, total | 149 | 169 | 161 | 178 | 159 | 228 | 211 | 274 | 259 | 302 |
| Chemical | 22 | 31 | 27 | 35 | 21 | 45 | 43 | 60 | 44 | 48 |
| Civil | 16 | 27 | 22 | 25 | 23 | 31 | 21 | 39 | 26 | 37 |
| Electrical | 31 | 46 | 43 | 56 | 44 | 52 | 36 | 52 | 62 | 88 |
| Mechanical | 20 | 20 | 19 | 14 | 13 | 16 | 29 | 29 | 31 | 35 |
| Other engineering | 60 | 45 | 50 | 48 | 58 | 84 | 82 | 94 | 96 | 94 |
| Sciences, total | 1,080 | 1,182 | 1,294 | 1,143 | 1,086 | 1,268 | 1,310 | 1,480 | 1,388 | 1,562 |
| Physical sciences, total | 216 | 248 | 248 | 199 | 160 | 209 | 223 | 279 | 247 | 251 |
| Astronomy | 7 | 4 | 2 | 4 | 4 | 6 | 10 | 18 | 7 | 5 |
| Chemistry | 142 | 173 | 172 | 157 | 115 | 148 | 153 | 203 | 180 | 173 |
| Physics | 65 | 71 | 73 | 38 | 39 | 54 | 58 | 56 | 60 | 71 |
| Other physical sciences | 2 | 0 | 1 | 0 | 2 | 1 | 2 | 2 | 0 | 2 |
| Earth, atmospheric, & ocean sciences | 20 | 38 | 33 | 39 | 22 | 36 | 36 | 41 | 47 | 58 |
| Mathematics | 86 | 84 | 95 | 84 | 78 | 83 | 75 | 85 | 77 | 83 |
| Computer sciences | 23 | 36 | 26 | 41 | 43 | 41 | 38 | 23 | 48 | 49 |
| Biological sciences | 365 | 372 | 437 | 355 | 334 | 441 | 504 | 538 | 468 | 554 |
| Agricultural sciences | 69 | 81 | 90 | 87 | 89 | 101 | 93 | 107 | 116 | 104 |
| Psychology | 56 | 75 | 84 | 80 | 85 | 94 | 79 | 101 | 83 | 96 |
| Social sciences | 245 | 248 | 281 | 258 | 275 | 263 | 262 | 306 | 302 | 367 |
| Non-S&E, total | 565 | 639 | 614 | 756 | 707 | 718 | 682 | 714 | 776 | 944 |
| Health | 70 | 67 | 76 | 115 | 104 | 116 | 138 | 130 | 147 | 163 |
| Humanities[1] | 189 | 215 | 191 | 235 | 239 | 242 | 234 | 259 | 239 | 332 |
| Education | 215 | 254 | 240 | 268 | 258 | 235 | 205 | 239 | 274 | 296 |
| Professional/other | 91 | 103 | 107 | 138 | 106 | 125 | 105 | 86 | 116 | 153 |
| Grand total, all fields | 1,794 | 1,990 | 2,069 | 2,077 | 1,952 | 2,214 | 2,203 | 2,468 | 2,423 | 2,808 |

[1] Categories differ from those published by other Federal sponsors and the National Research Council in that linguistics, history of science, American studies, and archaeology are included not in humanities but in social science.

**SOURCE:** National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates

## Table 4. Science and engineering (S&E) doctorates awarded, by major field and citizenship status of recipients: 1991-2000



| Field of study | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Total | | | | | | | | | |
| Science and engineering, total | 24,023 | 24,675 | 25,443 | 26,205 | 26,534 | 27,228 | 27,240 | 27,277 | 25,913 | 25,979 |
| Engineering, total | 5,214 | 5,438 | 5,698 | 5,822 | 6,008 | 6,305 | 6,114 | 5,927 | 5,328 | 5,330 |
| Aeronautical/astronautical | 207 | 234 | 228 | 230 | 252 | 287 | 273 | 243 | 206 | 215 |
| Chemical | 691 | 725 | 737 | 725 | 708 | 798 | 767 | 775 | 673 | 726 |
| Civil | 575 | 594 | 624 | 684 | 656 | 697 | 656 | 650 | 583 | 558 |
| Electrical | 1,405 | 1,483 | 1,543 | 1,673 | 1,731 | 1,740 | 1,721 | 1,596 | 1,477 | 1,544 |
| Industrial | 165 | 196 | 236 | 228 | 284 | 258 | 246 | 229 | 212 | 176 |
| Materials/metallurgical | 489 | 485 | 535 | 539 | 588 | 572 | 581 | 565 | 469 | 451 |
| Mechanical | 875 | 987 | 1,030 | 1,015 | 1,025 | 1,052 | 1,021 | 1,023 | 854 | 864 |
| Other engineering | 807 | 734 | 765 | 728 | 764 | 901 | 849 | 846 | 854 | 796 |
| Sciences, total | 18,809 | 19,237 | 19,745 | 20,383 | 20,526 | 20,923 | 21,126 | 21,350 | 20,585 | 20,649 |
| Physical sciences, total | 3,626 | 3,781 | 3,699 | 3,977 | 3,841 | 3,837 | 3,768 | 3,823 | 3,578 | 3,411 |
| Astronomy | 125 | 134 | 145 | 144 | 173 | 192 | 198 | 207 | 159 | 187 |
| Chemistry | 2,194 | 2,214 | 2,137 | 2,257 | 2,162 | 2,148 | 2,147 | 2,215 | 2,132 | 1,990 |
| Physics | 1,286 | 1,403 | 1,399 | 1,548 | 1,479 | 1,484 | 1,401 | 1,377 | 1,270 | 1,205 |
| Other physical sciences | 21 | 30 | 18 | 28 | 27 | 13 | 22 | 24 | 17 | 29 |
| Earth, atmospheric, and ocean sciences | 815 | 794 | 771 | 824 | 780 | 794 | 878 | 814 | 805 | 757 |
| Mathematics | 1,039 | 1,058 | 1,146 | 1,118 | 1,190 | 1,122 | 1,123 | 1,177 | 1,083 | 1,048 |
| Computer sciences | 800 | 869 | 880 | 903 | 997 | 921 | 910 | 925 | 853 | 861 |
| Biological sciences | 4,650 | 4,799 | 5,092 | 5,203 | 5,375 | 5,723 | 5,786 | 5,843 | 5,581 | 5,855 |
| Agricultural sciences | 1,073 | 1,063 | 968 | 1,078 | 1,036 | 1,037 | 982 | 1,037 | 965 | 943 |
| Psychology | 3,250 | 3,263 | 3,420 | 3,379 | 3,429 | 3,491 | 3,568 | 3,676 | 3,659 | 3,623 |
| Social sciences | 3,556 | 3,610 | 3,769 | 3,901 | 3,878 | 3,998 | 4,111 | 4,055 | 4,061 | 4,151 |
| Non-S&E, total | 13,511 | 14,215 | 14,357 | 14,829 | 15,208 | 15,185 | 15,305 | 15,357 | 15,147 | 15,389 |
| Health | 1,041 | 1,112 | 1,197 | 1,296 | 1,330 | 1,324 | 1,422 | 1,501 | 1,404 | 1,589 |
| Humanities[1] | 3,720 | 4,036 | 4,091 | 4,374 | 4,690 | 4,713 | 5,035 | 5,112 | 5,028 | 5,214 |
| Education | 6,454 | 6,677 | 6,689 | 6,708 | 6,649 | 6,772 | 6,572 | 6,568 | 6,545 | 6,420 |
| Professional/other | 2,296 | 2,390 | 2,380 | 2,451 | 2,539 | 2,376 | 2,276 | 2,176 | 2,170 | 2,166 |
| Grand total, all fields | 37,534 | 38,890 | 39,800 | 41,034 | 41,742 | 42,413 | 42,545 | 42,634 | 41,060 | 41,368 |

See explanatory information, if any, and SOURCE at end of table.

## Table 4. Science and engineering (S&E) doctorates awarded, by major field and citizenship status of recipients: 1991-2000



| Field of study | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Citizenship known | | | | | | | | | |
| Science and engineering, total | 23,555 | 24,034 | 24,686 | 25,708 | 25,989 | 26,444 | 25,898 | 26,019 | 24,688 | 24,712 |
| Engineering, total | 5,107 | 5,263 | 5,481 | 5,706 | 5,866 | 6,107 | 5,880 | 5,626 | 5,066 | 5,000 |
| Aeronautical/astronautical | 205 | 215 | 219 | 226 | 247 | 277 | 265 | 223 | 194 | 202 |
| Chemical | 680 | 717 | 713 | 716 | 699 | 790 | 752 | 746 | 652 | 688 |
| Civil | 566 | 572 | 607 | 677 | 646 | 674 | 637 | 613 | 563 | 540 |
| Electrical | 1,376 | 1,444 | 1,498 | 1,634 | 1,683 | 1,677 | 1,649 | 1,513 | 1,400 | 1,420 |
| Industrial | 162 | 192 | 230 | 228 | 280 | 252 | 237 | 221 | 207 | 170 |
| Materials/metallurgical | 481 | 469 | 516 | 530 | 575 | 556 | 558 | 541 | 452 | 424 |
| Mechanical | 852 | 964 | 988 | 997 | 1,000 | 1,019 | 985 | 970 | 815 | 826 |
| Other engineering | 785 | 690 | 710 | 698 | 736 | 862 | 797 | 799 | 783 | 730 |
| Sciences, total | 18,448 | 18,771 | 19,205 | 20,002 | 20,123 | 20,337 | 20,018 | 20,393 | 19,622 | 19,712 |
| Physical sciences, total | 3,557 | 3,703 | 3,593 | 3,896 | 3,771 | 3,709 | 3,580 | 3,654 | 3,398 | 3,240 |
| Astronomy | 123 | 134 | 145 | 144 | 169 | 191 | 195 | 199 | 154 | 183 |
| Chemistry | 2,150 | 2,170 | 2,075 | 2,213 | 2,117 | 2,075 | 2,037 | 2,123 | 2,027 | 1,884 |
| Physics | 1,264 | 1,371 | 1,356 | 1,515 | 1,458 | 1,430 | 1,329 | 1,309 | 1,200 | 1,145 |
| Other physical sciences | 20 | 28 | 17 | 24 | 27 | 13 | 19 | 23 | 17 | 28 |
| Earth, atmospheric, and ocean sciences | 803 | 777 | 739 | 810 | 767 | 763 | 836 | 778 | 765 | 711 |
| Mathematics | 1,024 | 1,018 | 1,107 | 1,105 | 1,153 | 1,090 | 1,070 | 1,116 | 1,047 | 1,010 |
| Computer sciences | 791 | 854 | 857 | 886 | 981 | 890 | 851 | 887 | 814 | 819 |
| Biological sciences | 4,584 | 4,727 | 4,998 | 5,146 | 5,297 | 5,605 | 5,574 | 5,637 | 5,399 | 5,650 |
| Agricultural sciences | 1,055 | 1,045 | 953 | 1,069 | 1,027 | 1,017 | 942 | 1,005 | 950 | 917 |
| Psychology | 3,151 | 3,142 | 3,309 | 3,287 | 3,348 | 3,409 | 3,272 | 3,442 | 3,391 | 3,385 |
| Social sciences | 3,483 | 3,505 | 3,649 | 3,803 | 3,779 | 3,854 | 3,893 | 3,874 | 3,858 | 3,980 |
| Non-S&E, total | 13,186 | 13,909 | 13,953 | 14,592 | 14,879 | 14,687 | 14,362 | 14,608 | 14,311 | 14,773 |
| Health | 1,010 | 1,081 | 1,153 | 1,280 | 1,290 | 1,283 | 1,300 | 1,440 | 1,325 | 1,494 |
| Humanities[1] | 3,638 | 3,935 | 3,977 | 4,295 | 4,603 | 4,567 | 4,763 | 4,857 | 4,810 | 5,009 |
| Education | 6,291 | 6,570 | 6,514 | 6,600 | 6,497 | 6,539 | 6,153 | 6,228 | 6,136 | 6,197 |
| Professional/other | 2,247 | 2,323 | 2,309 | 2,417 | 2,489 | 2,298 | 2,146 | 2,083 | 2,040 | 2,073 |
| Grand total, all fields | 36,741 | 37,943 | 38,639 | 40,300 | 40,868 | 41,131 | 40,260 | 40,627 | 38,999 | 39,485 |

See explanatory information, if any, and SOURCE at end of table.

## Table 4. Science and engineering (S&E) doctorates awarded, by major field and citizenship status of recipients: 1991-2000



| Field of study | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|---|---|---|---|---|---|---|---|---|---|
| | U.S. citizens | | | | | | | | | |
| Science and engineering, total | 14,629 | 14,559 | 14,932 | 15,166 | 15,487 | 15,629 | 16,119 | 16,229 | 15,800 | 15,655 |
| Engineering, total | 2,086 | 2,109 | 2,228 | 2,215 | 2,386 | 2,594 | 2,736 | 2,565 | 2,473 | 2,206 |
| Aeronautical/astronautical | 103 | 95 | 114 | 110 | 140 | 166 | 155 | 139 | 102 | 117 |
| Chemical | 348 | 318 | 324 | 293 | 291 | 318 | 321 | 327 | 333 | 338 |
| Civil | 173 | 164 | 168 | 203 | 206 | 212 | 249 | 246 | 260 | 219 |
| Electrical | 554 | 597 | 630 | 634 | 683 | 707 | 751 | 638 | 637 | 527 |
| Industrial | 50 | 54 | 89 | 89 | 108 | 107 | 102 | 84 | 86 | 67 |
| Materials/metallurgical | 211 | 202 | 228 | 218 | 238 | 244 | 271 | 265 | 223 | 221 |
| Mechanical | 297 | 352 | 347 | 359 | 383 | 436 | 455 | 434 | 396 | 339 |
| Other engineering | 350 | 327 | 328 | 309 | 337 | 404 | 432 | 432 | 436 | 378 |
| Sciences, total | 12,543 | 12,450 | 12,704 | 12,951 | 13,101 | 13,035 | 13,383 | 13,664 | 13,327 | 13,449 |
| Physical sciences, total | 2,120 | 2,157 | 2,093 | 2,198 | 2,137 | 2,076 | 2,131 | 2,139 | 2,029 | 1,885 |
| Astronomy | 84 | 100 | 106 | 103 | 120 | 137 | 151 | 132 | 110 | 128 |
| Chemistry | 1,351 | 1,328 | 1,272 | 1,291 | 1,238 | 1,169 | 1,234 | 1,286 | 1,254 | 1,116 |
| Physics | 671 | 709 | 704 | 789 | 764 | 761 | 731 | 705 | 654 | 622 |
| Other physical sciences | 14 | 20 | 11 | 15 | 15 | 9 | 15 | 16 | 11 | 19 |
| Earth, atmospheric, and ocean sciences | 592 | 506 | 463 | 507 | 478 | 462 | 537 | 500 | 472 | 475 |
| Mathematics | 463 | 454 | 496 | 504 | 554 | 490 | 530 | 576 | 537 | 513 |
| Computer sciences | 388 | 422 | 425 | 426 | 484 | 422 | 430 | 474 | 412 | 387 |
| Biological sciences | 3,314 | 3,328 | 3,449 | 3,422 | 3,494 | 3,547 | 3,670 | 3,753 | 3,649 | 3,895 |
| Agricultural sciences | 564 | 511 | 457 | 519 | 492 | 473 | 468 | 464 | 440 | 446 |
| Psychology | 2,953 | 2,900 | 3,071 | 3,052 | 3,083 | 3,124 | 3,046 | 3,181 | 3,168 | 3,146 |
| Social sciences | 2,149 | 2,172 | 2,250 | 2,323 | 2,379 | 2,441 | 2,571 | 2,577 | 2,620 | 2,702 |
| Non-S&E, total | 10,944 | 11,451 | 11,516 | 11,981 | 12,253 | 12,121 | 12,032 | 12,208 | 11,836 | 12,233 |
| Health | 779 | 809 | 879 | 961 | 938 | 933 | 958 | 1,071 | 962 | 1,113 |
| Humanities[1] | 2,975 | 3,211 | 3,273 | 3,486 | 3,747 | 3,726 | 3,945 | 4,020 | 3,991 | 4,150 |
| Education | 5,614 | 5,852 | 5,791 | 5,864 | 5,777 | 5,866 | 5,580 | 5,569 | 5,439 | 5,532 |
| Professional/other | 1,576 | 1,579 | 1,573 | 1,670 | 1,791 | 1,596 | 1,549 | 1,548 | 1,444 | 1,438 |
| Grand total, all fields | 25,573 | 26,010 | 26,448 | 27,147 | 27,740 | 27,750 | 28,151 | 28,437 | 27,636 | 27,888 |

See explanatory information, if any, and SOURCE at end of table.

## Table 4. Science and engineering (S&E) doctorates awarded, by major field and citizenship status of recipients: 1991-2000



| Field of study | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Non-U.S. citizens | | | | | | | | | |
| Science and engineering, total | 8,926 | 9,475 | 9,754 | 10,542 | 10,502 | 10,815 | 9,779 | 9,790 | 8,888 | 9,057 |
| Engineering, total | 3,021 | 3,154 | 3,253 | 3,491 | 3,480 | 3,513 | 3,144 | 3,061 | 2,593 | 2,794 |
| Aeronautical/astronautical | 102 | 120 | 105 | 116 | 107 | 111 | 110 | 84 | 92 | 85 |
| Chemical | 332 | 399 | 389 | 423 | 408 | 472 | 431 | 419 | 319 | 350 |
| Civil | 393 | 408 | 439 | 474 | 440 | 462 | 388 | 367 | 303 | 321 |
| Electrical | 822 | 847 | 868 | 1,000 | 1,000 | 970 | 898 | 875 | 763 | 893 |
| Industrial | 112 | 138 | 141 | 139 | 172 | 145 | 135 | 137 | 121 | 103 |
| Materials/metallurgical | 270 | 267 | 288 | 312 | 337 | 312 | 287 | 276 | 229 | 203 |
| Mechanical | 555 | 612 | 641 | 638 | 617 | 583 | 530 | 536 | 419 | 487 |
| Other engineering | 435 | 363 | 382 | 389 | 399 | 458 | 365 | 367 | 347 | 352 |
| Sciences, total | 5,905 | 6,321 | 6,501 | 7,051 | 7,022 | 7,302 | 6,635 | 6,729 | 6,295 | 6,263 |
| Physical sciences, total | 1,437 | 1,546 | 1,500 | 1,698 | 1,634 | 1,633 | 1,449 | 1,515 | 1,369 | 1,355 |
| Astronomy | 39 | 34 | 39 | 41 | 49 | 54 | 44 | 67 | 44 | 55 |
| Chemistry | 799 | 842 | 803 | 922 | 879 | 906 | 803 | 837 | 773 | 768 |
| Physics | 593 | 662 | 652 | 726 | 694 | 669 | 598 | 604 | 546 | 523 |
| Other physical sciences | 6 | 8 | 6 | 9 | 12 | 4 | 4 | 7 | 6 | 9 |
| Earth, atmospheric, and ocean sciences | 211 | 271 | 276 | 303 | 289 | 301 | 299 | 278 | 293 | 236 |
| Mathematics | 561 | 564 | 611 | 601 | 599 | 600 | 540 | 540 | 510 | 497 |
| Computer sciences | 403 | 432 | 432 | 460 | 497 | 468 | 421 | 413 | 402 | 432 |
| Biological sciences | 1,270 | 1,399 | 1,549 | 1,724 | 1,803 | 2,058 | 1,904 | 1,884 | 1,750 | 1,755 |
| Agricultural sciences | 491 | 534 | 496 | 550 | 535 | 544 | 474 | 541 | 510 | 471 |
| Psychology | 198 | 242 | 238 | 235 | 265 | 285 | 226 | 261 | 223 | 239 |
| Social sciences | 1,334 | 1,333 | 1,399 | 1,480 | 1,400 | 1,413 | 1,322 | 1,297 | 1,238 | 1,278 |
| Non-S&E, total | 2,242 | 2,458 | 2,437 | 2,611 | 2,626 | 2,566 | 2,330 | 2,400 | 2,475 | 2,540 |
| Health | 231 | 272 | 274 | 319 | 352 | 350 | 342 | 369 | 363 | 381 |
| Humanities[1] | 663 | 724 | 704 | 809 | 856 | 841 | 818 | 837 | 819 | 859 |
| Education | 677 | 718 | 723 | 736 | 720 | 673 | 573 | 659 | 697 | 665 |
| Professional/other | 671 | 744 | 736 | 747 | 698 | 702 | 597 | 535 | 596 | 635 |
| Grand total, all fields | 11,168 | 11,933 | 12,191 | 13,153 | 13,128 | 13,381 | 12,109 | 12,190 | 11,363 | 11,597 |

See explanatory information, if any, and SOURCE at end of table.

## Table 4. Science and engineering (S&E) doctorates awarded, by major field and citizenship status of recipients: 1991-2000



| Field of study | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Non-U.S. citizens with permanent visas | | | | | | | | | |
| Science and engineering, total | 1,285 | 1,383 | 1,641 | 3,021 | 3,509 | 3,009 | 2,280 | 2,016 | 1,652 | 1,409 |
| Engineering, total | 388 | 411 | 469 | 838 | 956 | 793 | 593 | 479 | 403 | 350 |
| Aeronautical/astronautical | 11 | 8 | 6 | 20 | 13 | 18 | 13 | 13 | 9 | 10 |
| Chemical | 51 | 60 | 53 | 87 | 90 | 73 | 88 | 46 | 38 | 42 |
| Civil | 40 | 51 | 59 | 89 | 103 | 93 | 78 | 51 | 51 | 41 |
| Electrical | 132 | 122 | 165 | 265 | 288 | 221 | 187 | 166 | 127 | 116 |
| Industrial | 18 | 20 | 16 | 30 | 41 | 29 | 17 | 17 | 13 | 10 |
| Materials/metallurgical | 29 | 34 | 39 | 79 | 114 | 92 | 44 | 48 | 35 | 22 |
| Mechanical | 62 | 74 | 87 | 179 | 180 | 152 | 82 | 82 | 65 | 56 |
| Other engineering | 45 | 42 | 44 | 89 | 127 | 115 | 84 | 56 | 65 | 53 |
| Sciences, total | 897 | 972 | 1,172 | 2,183 | 2,553 | 2,216 | 1,687 | 1,537 | 1,249 | 1,059 |
| Physical sciences, total | 180 | 200 | 237 | 591 | 704 | 493 | 366 | 313 | 242 | 199 |
| Astronomy | 2 | 6 | 5 | 9 | 21 | 12 | 7 | 15 | 7 | 12 |
| Chemistry | 110 | 113 | 128 | 325 | 386 | 293 | 205 | 179 | 150 | 120 |
| Physics | 68 | 81 | 102 | 255 | 295 | 187 | 152 | 117 | 84 | 66 |
| Other physical sciences | 0 | 0 | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 1 |
| Earth, atmospheric, and ocean sciences | 26 | 35 | 41 | 106 | 116 | 96 | 70 | 62 | 51 | 34 |
| Mathematics | 55 | 53 | 94 | 153 | 217 | 158 | 99 | 93 | 66 | 55 |
| Computer sciences | 63 | 67 | 84 | 117 | 132 | 92 | 91 | 84 | 71 | 71 |
| Biological sciences | 211 | 240 | 303 | 666 | 835 | 818 | 584 | 551 | 464 | 365 |
| Agricultural sciences | 56 | 62 | 49 | 97 | 106 | 103 | 83 | 79 | 51 | 55 |
| Psychology | 65 | 86 | 90 | 84 | 101 | 104 | 89 | 93 | 70 | 75 |
| Social sciences | 241 | 229 | 274 | 369 | 342 | 352 | 305 | 262 | 234 | 205 |
| Non-S&E, total | 572 | 597 | 618 | 726 | 809 | 758 | 650 | 681 | 654 | 540 |
| Health | 60 | 46 | 60 | 89 | 106 | 83 | 69 | 82 | 77 | 75 |
| Humanities[1] | 219 | 229 | 238 | 280 | 308 | 319 | 289 | 304 | 283 | 233 |
| Education | 174 | 165 | 177 | 199 | 218 | 196 | 165 | 171 | 178 | 124 |
| Professional/other | 119 | 157 | 143 | 158 | 177 | 160 | 127 | 124 | 116 | 108 |
| Grand total, all fields | 1,857 | 1,980 | 2,259 | 3,747 | 4,318 | 3,767 | 2,930 | 2,697 | 2,306 | 1,949 |

See explanatory information, if any, and SOURCE at end of table.

## Table 4. Science and engineering (S&E) doctorates awarded, by major field and citizenship status of recipients: 1991-2000



| Field of study | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Non-U.S. citizens with temporary visas | | | | | | | | | |
| Science and engineering, total | 7,641 | 8,092 | 8,113 | 7,521 | 6,993 | 7,806 | 7,499 | 7,774 | 7,236 | 7,648 |
| Engineering, total | 2,633 | 2,743 | 2,784 | 2,653 | 2,524 | 2,720 | 2,551 | 2,582 | 2,190 | 2,444 |
| Aeronautical/astronautical | 91 | 112 | 99 | 96 | 94 | 93 | 97 | 71 | 83 | 75 |
| Chemical | 281 | 339 | 336 | 336 | 318 | 399 | 343 | 373 | 281 | 308 |
| Civil | 353 | 357 | 380 | 385 | 337 | 369 | 310 | 316 | 252 | 280 |
| Electrical | 690 | 725 | 703 | 735 | 712 | 749 | 711 | 709 | 636 | 777 |
| Industrial | 94 | 118 | 125 | 109 | 131 | 116 | 118 | 120 | 108 | 93 |
| Materials/metallurgical | 241 | 233 | 249 | 233 | 223 | 220 | 243 | 228 | 194 | 181 |
| Mechanical | 493 | 538 | 554 | 459 | 437 | 431 | 448 | 454 | 354 | 431 |
| Other engineering | 390 | 321 | 338 | 300 | 272 | 343 | 281 | 311 | 282 | 299 |
| Sciences, total | 5,008 | 5,349 | 5,329 | 4,868 | 4,469 | 5,086 | 4,948 | 5,192 | 5,046 | 5,204 |
| Physical sciences, total | 1,257 | 1,346 | 1,263 | 1,107 | 930 | 1,140 | 1,083 | 1,202 | 1,127 | 1,156 |
| Astronomy | 37 | 28 | 34 | 32 | 28 | 42 | 37 | 52 | 37 | 43 |
| Chemistry | 689 | 729 | 675 | 597 | 493 | 613 | 598 | 658 | 623 | 648 |
| Physics | 525 | 581 | 550 | 471 | 399 | 482 | 446 | 487 | 462 | 457 |
| Other physical sciences | 6 | 8 | 4 | 7 | 10 | 3 | 2 | 5 | 5 | 8 |
| Earth, atmospheric, and ocean sciences | 185 | 236 | 235 | 197 | 173 | 205 | 229 | 216 | 242 | 202 |
| Mathematics | 506 | 511 | 517 | 448 | 382 | 442 | 441 | 447 | 444 | 442 |
| Computer sciences | 340 | 365 | 348 | 343 | 365 | 376 | 330 | 329 | 331 | 361 |
| Biological sciences | 1,059 | 1,159 | 1,246 | 1,058 | 968 | 1,240 | 1,320 | 1,333 | 1,286 | 1,390 |
| Agricultural sciences | 435 | 472 | 447 | 453 | 429 | 441 | 391 | 462 | 459 | 416 |
| Psychology | 133 | 156 | 148 | 151 | 164 | 181 | 137 | 168 | 153 | 164 |
| Social sciences | 1,093 | 1,104 | 1,125 | 1,111 | 1,058 | 1,061 | 1,017 | 1,035 | 1,004 | 1,073 |
| Non-S&E, total | 1,670 | 1,861 | 1,819 | 1,885 | 1,817 | 1,808 | 1,680 | 1,719 | 1,821 | 2,000 |
| Health | 171 | 226 | 214 | 230 | 246 | 267 | 273 | 287 | 286 | 306 |
| Humanities[1] | 444 | 495 | 466 | 529 | 548 | 522 | 529 | 533 | 536 | 626 |
| Education | 503 | 553 | 546 | 537 | 502 | 477 | 408 | 488 | 519 | 541 |
| Professional/other | 552 | 587 | 593 | 589 | 521 | 542 | 470 | 411 | 480 | 527 |
| Grand total, all fields | 9,311 | 9,953 | 9,932 | 9,406 | 8,810 | 9,614 | 9,179 | 9,493 | 9,057 | 9,648 |

See explanatory information, if any, and SOURCE at end of table.

## Table 4. Science and engineering (S&E) doctorates awarded, by major field and citizenship status of recipients: 1991-2000



| Field of study | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Citizenship unknown | | | | | | | | | |
| Science and engineering, total | 468 | 641 | 757 | 497 | 545 | 784 | 1,342 | 1,258 | 1,225 | 1,267 |
| Engineering, total | 107 | 175 | 217 | 116 | 142 | 198 | 234 | 301 | 262 | 330 |
| Aeronautical/astronautical | 2 | 19 | 9 | 4 | 5 | 10 | 8 | 20 | 12 | 13 |
| Chemical | 11 | 8 | 24 | 9 | 9 | 8 | 15 | 29 | 21 | 38 |
| Civil | 9 | 22 | 17 | 7 | 10 | 23 | 19 | 37 | 20 | 18 |
| Electrical | 29 | 39 | 45 | 39 | 48 | 63 | 72 | 83 | 77 | 124 |
| Industrial | 3 | 4 | 6 | 0 | 4 | 6 | 9 | 8 | 5 | 6 |
| Materials/metallurgical | 8 | 16 | 19 | 9 | 13 | 16 | 23 | 24 | 17 | 27 |
| Mechanical | 23 | 23 | 42 | 18 | 25 | 33 | 36 | 53 | 39 | 38 |
| Other engineering | 22 | 44 | 55 | 30 | 28 | 39 | 52 | 47 | 71 | 66 |
| Sciences, total | 361 | 466 | 540 | 381 | 403 | 586 | 1,108 | 957 | 963 | 937 |
| Physical sciences, total | 69 | 78 | 106 | 81 | 70 | 128 | 188 | 169 | 180 | 171 |
| Astronomy | 2 | 0 | 0 | 0 | 4 | 1 | 3 | 8 | 5 | 4 |
| Chemistry | 44 | 44 | 62 | 44 | 45 | 73 | 110 | 92 | 105 | 106 |
| Physics | 22 | 32 | 43 | 33 | 21 | 54 | 72 | 68 | 70 | 60 |
| Other physical sciences | 1 | 2 | 1 | 4 | 0 | 0 | 3 | 1 | 0 | 1 |
| Earth, atmospheric, and ocean sciences | 12 | 17 | 32 | 14 | 13 | 31 | 42 | 36 | 40 | 46 |
| Mathematics | 15 | 40 | 39 | 13 | 37 | 32 | 53 | 61 | 36 | 38 |
| Computer sciences | 9 | 15 | 23 | 17 | 16 | 31 | 59 | 38 | 39 | 42 |
| Biological sciences | 66 | 72 | 94 | 57 | 78 | 118 | 212 | 206 | 182 | 205 |
| Agricultural sciences | 18 | 18 | 15 | 9 | 9 | 20 | 40 | 32 | 15 | 26 |
| Psychology | 99 | 121 | 111 | 92 | 81 | 82 | 296 | 234 | 268 | 238 |
| Social sciences | 73 | 105 | 120 | 98 | 99 | 144 | 218 | 181 | 203 | 171 |
| Non-S&E, total | 325 | 306 | 404 | 237 | 329 | 498 | 943 | 749 | 836 | 616 |
| Health | 31 | 31 | 44 | 16 | 40 | 41 | 122 | 61 | 79 | 95 |
| Humanities[1] | 82 | 101 | 114 | 79 | 87 | 146 | 272 | 255 | 218 | 205 |
| Education | 163 | 107 | 175 | 108 | 152 | 233 | 419 | 340 | 409 | 223 |
| Professional/other | 49 | 67 | 71 | 34 | 50 | 78 | 130 | 93 | 130 | 93 |
| Grand total, all fields | 793 | 947 | 1,161 | 734 | 874 | 1,282 | 2,285 | 2,007 | 2,061 | 1,883 |

[1] Categories differ from those published by other Federal sponsors and the National Research Council in that linguistics, history of science, American studies, and archaeology are included not in humanities but in social science.

**SOURCE:** National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates

## Table 4a. Percentage distribution of science and engineering doctorates awarded, by major field and citizenship status of recipients: 1991-2000



| Field of study | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Total | | | | | | | | | |
| Science and engineering, total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Engineering, total | 21.7 | 22.0 | 22.4 | 22.2 | 22.6 | 23.2 | 22.4 | 21.7 | 20.6 | 20.5 |
| Aeronautical/astronautical | .9 | .9 | .9 | .9 | .9 | 1.1 | 1.0 | .9 | .8 | .8 |
| Chemical | 2.9 | 2.9 | 2.9 | 2.8 | 2.7 | 2.9 | 2.8 | 2.8 | 2.6 | 2.8 |
| Civil | 2.4 | 2.4 | 2.5 | 2.6 | 2.5 | 2.6 | 2.4 | 2.4 | 2.2 | 2.1 |
| Electrical | 5.8 | 6.0 | 6.1 | 6.4 | 6.5 | 6.4 | 6.3 | 5.9 | 5.7 | 5.9 |
| Industrial | .7 | .8 | .9 | .9 | 1.1 | .9 | .9 | .8 | .8 | .7 |
| Materials/metallurgical | 2.0 | 2.0 | 2.1 | 2.1 | 2.2 | 2.1 | 2.1 | 2.1 | 1.8 | 1.7 |
| Mechanical | 3.6 | 4.0 | 4.0 | 3.9 | 3.9 | 3.9 | 3.7 | 3.8 | 3.3 | 3.3 |
| Other engineering | 3.4 | 3.0 | 3.0 | 2.8 | 2.9 | 3.3 | 3.1 | 3.1 | 3.3 | 3.1 |
| Sciences, total | 78.3 | 78.0 | 77.6 | 77.8 | 77.4 | 76.8 | 77.6 | 78.3 | 79.4 | 79.5 |
| Physical sciences, total | 15.1 | 15.3 | 14.5 | 15.2 | 14.5 | 14.1 | 13.8 | 14.0 | 13.8 | 13.1 |
| Astronomy | .5 | .5 | .6 | .5 | .7 | .7 | .7 | .8 | .6 | .7 |
| Chemistry | 9.1 | 9.0 | 8.4 | 8.6 | 8.1 | 7.9 | 7.9 | 8.1 | 8.2 | 7.7 |
| Physics | 5.4 | 5.7 | 5.5 | 5.9 | 5.6 | 5.5 | 5.1 | 5.0 | 4.9 | 4.6 |
| Other physical sciences | .1 | .1 | .1 | .1 | .1 | .0 | .1 | .1 | .1 | .1 |
| Earth, atmospheric, and ocean sciences | 3.4 | 3.2 | 3.0 | 3.1 | 2.9 | 2.9 | 3.2 | 3.0 | 3.1 | 2.9 |
| Mathematics | 4.3 | 4.3 | 4.5 | 4.3 | 4.5 | 4.1 | 4.1 | 4.3 | 4.2 | 4.0 |
| Computer sciences | 3.3 | 3.5 | 3.5 | 3.4 | 3.8 | 3.4 | 3.3 | 3.4 | 3.3 | 3.3 |
| Biological sciences | 19.4 | 19.4 | 20.0 | 19.9 | 20.3 | 21.0 | 21.2 | 21.4 | 21.5 | 22.5 |
| Agricultural sciences | 4.5 | 4.3 | 3.8 | 4.1 | 3.9 | 3.8 | 3.6 | 3.8 | 3.7 | 3.6 |
| Psychology | 13.5 | 13.2 | 13.4 | 12.9 | 12.9 | 12.8 | 13.1 | 13.5 | 14.1 | 13.9 |
| Social sciences | 14.8 | 14.6 | 14.8 | 14.9 | 14.6 | 14.7 | 15.1 | 14.9 | 15.7 | 16.0 |
| | Citizenship known | | | | | | | | | |
| Science and engineering, total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Engineering, total | 21.7 | 21.9 | 22.2 | 22.2 | 22.6 | 23.1 | 22.7 | 21.6 | 20.5 | 20.2 |
| Aeronautical/astronautical | .9 | .9 | .9 | .9 | 1.0 | 1.0 | 1.0 | .9 | .8 | .8 |
| Chemical | 2.9 | 3.0 | 2.9 | 2.8 | 2.7 | 3.0 | 2.9 | 2.9 | 2.6 | 2.8 |
| Civil | 2.4 | 2.4 | 2.5 | 2.6 | 2.5 | 2.5 | 2.5 | 2.4 | 2.3 | 2.2 |
| Electrical | 5.8 | 6.0 | 6.1 | 6.4 | 6.5 | 6.3 | 6.4 | 5.8 | 5.7 | 5.7 |
| Industrial | .7 | .8 | .9 | .9 | 1.1 | 1.0 | .9 | .8 | .8 | .7 |
| Materials/metallurgical | 2.0 | 2.0 | 2.1 | 2.1 | 2.2 | 2.1 | 2.2 | 2.1 | 1.8 | 1.7 |
| Mechanical | 3.6 | 4.0 | 4.0 | 3.9 | 3.8 | 3.9 | 3.8 | 3.7 | 3.3 | 3.3 |
| Other engineering | 3.3 | 2.9 | 2.9 | 2.7 | 2.8 | 3.3 | 3.1 | 3.1 | 3.2 | 3.0 |
| Sciences, total | 78.3 | 78.1 | 77.8 | 77.8 | 77.4 | 76.9 | 77.3 | 78.4 | 79.5 | 79.8 |
| Physical sciences, total | 15.1 | 15.4 | 14.6 | 15.2 | 14.5 | 14.0 | 13.8 | 14.0 | 13.8 | 13.1 |
| Astronomy | .5 | .6 | .6 | .6 | .7 | .7 | .8 | .8 | .6 | .7 |
| Chemistry | 9.1 | 9.0 | 8.4 | 8.6 | 8.1 | 7.8 | 7.9 | 8.2 | 8.2 | 7.6 |
| Physics | 5.4 | 5.7 | 5.5 | 5.9 | 5.6 | 5.4 | 5.1 | 5.0 | 4.9 | 4.6 |
| Other physical sciences | .1 | .1 | .1 | .1 | .1 | .0 | .1 | .1 | .1 | .1 |
| Earth, atmospheric, and ocean sciences | 3.4 | 3.2 | 3.0 | 3.2 | 3.0 | 2.9 | 3.2 | 3.0 | 3.1 | 2.9 |
| Mathematics | 4.3 | 4.2 | 4.5 | 4.3 | 4.4 | 4.1 | 4.1 | 4.3 | 4.2 | 4.1 |
| Computer sciences | 3.4 | 3.6 | 3.5 | 3.4 | 3.8 | 3.4 | 3.3 | 3.4 | 3.3 | 3.3 |
| Biological sciences | 19.5 | 19.7 | 20.2 | 20.0 | 20.4 | 21.2 | 21.5 | 21.7 | 21.9 | 22.9 |
| Agricultural sciences | 4.5 | 4.3 | 3.9 | 4.2 | 4.0 | 3.8 | 3.6 | 3.9 | 3.8 | 3.7 |
| Psychology | 13.4 | 13.1 | 13.4 | 12.8 | 12.9 | 12.9 | 12.6 | 13.2 | 13.7 | 13.7 |
| Social sciences | 14.8 | 14.6 | 14.8 | 14.8 | 14.5 | 14.6 | 15.0 | 14.9 | 15.6 | 16.1 |

See explanatory information, if any, and SOURCE at end of table.

## Table 4a. Percentage distribution of science and engineering doctorates awarded, by major field and citizenship status of recipients: 1991-2000



| Field of study | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|---|---|---|---|---|---|---|---|---|---|
| | U.S. citizens | | | | | | | | | |
| Science and engineering, total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Engineering, total | 14.3 | 14.5 | 14.9 | 14.6 | 15.4 | 16.6 | 17.0 | 15.8 | 15.7 | 14.1 |
| Aeronautical/astronautical | .7 | .7 | .8 | .7 | .9 | 1.1 | 1.0 | .9 | .6 | .7 |
| Chemical | 2.4 | 2.2 | 2.2 | 1.9 | 1.9 | 2.0 | 2.0 | 2.0 | 2.1 | 2.2 |
| Civil | 1.2 | 1.1 | 1.1 | 1.3 | 1.3 | 1.4 | 1.5 | 1.5 | 1.6 | 1.4 |
| Electrical | 3.8 | 4.1 | 4.2 | 4.2 | 4.4 | 4.5 | 4.7 | 3.9 | 4.0 | 3.4 |
| Industrial | .3 | .4 | .6 | .6 | .7 | .7 | .6 | .5 | .5 | .4 |
| Materials/metallurgical | 1.4 | 1.4 | 1.5 | 1.4 | 1.5 | 1.6 | 1.7 | 1.6 | 1.4 | 1.4 |
| Mechanical | 2.0 | 2.4 | 2.3 | 2.4 | 2.5 | 2.8 | 2.8 | 2.7 | 2.5 | 2.2 |
| Other engineering | 2.4 | 2.2 | 2.2 | 2.0 | 2.2 | 2.6 | 2.7 | 2.7 | 2.8 | 2.4 |
| Sciences, total | 85.7 | 85.5 | 85.1 | 85.4 | 84.6 | 83.4 | 83.0 | 84.2 | 84.3 | 85.9 |
| Physical sciences, total | 14.5 | 14.8 | 14.0 | 14.5 | 13.8 | 13.3 | 13.2 | 13.2 | 12.8 | 12.0 |
| Astronomy | .6 | .7 | .7 | .7 | .8 | .9 | .9 | .8 | .7 | .8 |
| Chemistry | 9.2 | 9.1 | 8.5 | 8.5 | 8.0 | 7.5 | 7.7 | 7.9 | 7.9 | 7.1 |
| Physics | 4.6 | 4.9 | 4.7 | 5.2 | 4.9 | 4.9 | 4.5 | 4.3 | 4.1 | 4.0 |
| Other physical sciences | .1 | .1 | .1 | .1 | .1 | .1 | .1 | .1 | .1 | .1 |
| Earth, atmospheric, and ocean sciences | 4.0 | 3.5 | 3.1 | 3.3 | 3.1 | 3.0 | 3.3 | 3.1 | 3.0 | 3.0 |
| Mathematics | 3.2 | 3.1 | 3.3 | 3.3 | 3.6 | 3.1 | 3.3 | 3.5 | 3.4 | 3.3 |
| Computer sciences | 2.7 | 2.9 | 2.8 | 2.8 | 3.1 | 2.7 | 2.7 | 2.9 | 2.6 | 2.5 |
| Biological sciences | 22.7 | 22.9 | 23.1 | 22.6 | 22.6 | 22.7 | 22.8 | 23.1 | 23.1 | 24.9 |
| Agricultural sciences | 3.9 | 3.5 | 3.1 | 3.4 | 3.2 | 3.0 | 2.9 | 2.9 | 2.8 | 2.8 |
| Psychology | 20.2 | 19.9 | 20.6 | 20.1 | 19.9 | 20.0 | 18.9 | 19.6 | 20.1 | 20.1 |
| Social sciences | 14.7 | 14.9 | 15.1 | 15.3 | 15.4 | 15.6 | 16.0 | 15.9 | 16.6 | 17.3 |
| | Non-U.S. citizens | | | | | | | | | |
| Science and engineering, total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Engineering, total | 33.8 | 33.3 | 33.4 | 33.1 | 33.1 | 32.5 | 32.2 | 31.3 | 29.2 | 30.8 |
| Aeronautical/astronautical | 1.1 | 1.3 | 1.1 | 1.1 | 1.0 | 1.0 | 1.1 | .9 | 1.0 | .9 |
| Chemical | 3.7 | 4.2 | 4.0 | 4.0 | 3.9 | 4.4 | 4.4 | 4.3 | 3.6 | 3.9 |
| Civil | 4.4 | 4.3 | 4.5 | 4.5 | 4.2 | 4.3 | 4.0 | 3.7 | 3.4 | 3.5 |
| Electrical | 9.2 | 8.9 | 8.9 | 9.5 | 9.5 | 9.0 | 9.2 | 8.9 | 8.6 | 9.9 |
| Industrial | 1.3 | 1.5 | 1.4 | 1.3 | 1.6 | 1.3 | 1.4 | 1.4 | 1.4 | 1.1 |
| Materials/metallurgical | 3.0 | 2.8 | 3.0 | 3.0 | 3.2 | 2.9 | 2.9 | 2.8 | 2.6 | 2.2 |
| Mechanical | 6.2 | 6.5 | 6.6 | 6.1 | 5.9 | 5.4 | 5.4 | 5.5 | 4.7 | 5.4 |
| Other engineering | 4.9 | 3.8 | 3.9 | 3.7 | 3.8 | 4.2 | 3.7 | 3.7 | 3.9 | 3.9 |
| Sciences, total | 66.2 | 66.7 | 66.6 | 66.9 | 66.9 | 67.5 | 67.8 | 68.7 | 70.8 | 69.2 |
| Physical sciences, total | 16.1 | 16.3 | 15.4 | 16.1 | 15.6 | 15.1 | 14.8 | 15.5 | 15.4 | 15.0 |
| Astronomy | .4 | .4 | .4 | .4 | .5 | .5 | .4 | .7 | .5 | .6 |
| Chemistry | 9.0 | 8.9 | 8.2 | 8.7 | 8.4 | 8.4 | 8.2 | 8.5 | 8.7 | 8.5 |
| Physics | 6.6 | 7.0 | 6.7 | 6.9 | 6.6 | 6.2 | 6.1 | 6.2 | 6.1 | 5.8 |
| Other physical sciences | .1 | .1 | .1 | .1 | .1 | .0 | .0 | .1 | .1 | .1 |
| Earth, atmospheric, and ocean sciences | 2.4 | 2.9 | 2.8 | 2.9 | 2.8 | 2.8 | 3.1 | 2.8 | 3.3 | 2.6 |
| Mathematics | 6.3 | 6.0 | 6.3 | 5.7 | 5.7 | 5.5 | 5.5 | 5.5 | 5.7 | 5.5 |
| Computer sciences | 4.5 | 4.6 | 4.4 | 4.4 | 4.7 | 4.3 | 4.3 | 4.2 | 4.5 | 4.8 |
| Biological sciences | 14.2 | 14.8 | 15.9 | 16.4 | 17.2 | 19.0 | 19.5 | 19.2 | 19.7 | 19.4 |
| Agricultural sciences | 5.5 | 5.6 | 5.1 | 5.2 | 5.1 | 5.0 | 4.8 | 5.5 | 5.7 | 5.2 |
| Psychology | 2.2 | 2.6 | 2.4 | 2.2 | 2.5 | 2.6 | 2.3 | 2.7 | 2.5 | 2.6 |
| Social sciences | 14.9 | 14.1 | 14.3 | 14.0 | 13.3 | 13.1 | 13.5 | 13.2 | 13.9 | 14.1 |

See explanatory information, if any, and SOURCE at end of table.

## Table 4a. Percentage distribution of science and engineering doctorates awarded, by major field and citizenship status of recipients: 1991-2000



| Field of study | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Non-U.S. citizens with permanent visas | | | | | | | | | |
| Science and engineering, total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Engineering, total | 30.2 | 29.7 | 28.6 | 27.7 | 27.2 | 26.4 | 26.0 | 23.8 | 24.4 | 24.8 |
| Aeronautical/astronautical | .9 | .6 | .4 | .7 | .4 | .6 | .6 | .6 | .5 | .7 |
| Chemical | 4.0 | 4.3 | 3.2 | 2.9 | 2.6 | 2.4 | 3.9 | 2.3 | 2.3 | 3.0 |
| Civil | 3.1 | 3.7 | 3.6 | 2.9 | 2.9 | 3.1 | 3.4 | 2.5 | 3.1 | 2.9 |
| Electrical | 10.3 | 8.8 | 10.1 | 8.8 | 8.2 | 7.3 | 8.2 | 8.2 | 7.7 | 8.2 |
| Industrial | 1.4 | 1.4 | 1.0 | 1.0 | 1.2 | 1.0 | .7 | .8 | .8 | .7 |
| Materials/metallurgical | 2.3 | 2.5 | 2.4 | 2.6 | 3.2 | 3.1 | 1.9 | 2.4 | 2.1 | 1.6 |
| Mechanical | 4.8 | 5.4 | 5.3 | 5.9 | 5.1 | 5.1 | 3.6 | 4.1 | 3.9 | 4.0 |
| Other engineering | 3.5 | 3.0 | 2.7 | 2.9 | 3.6 | 3.8 | 3.7 | 2.8 | 3.9 | 3.8 |
| Sciences, total | 69.8 | 70.3 | 71.4 | 72.3 | 72.8 | 73.6 | 74.0 | 76.2 | 75.6 | 75.2 |
| Physical sciences, total | 14.0 | 14.5 | 14.4 | 19.6 | 20.1 | 16.4 | 16.1 | 15.5 | 14.6 | 14.1 |
| Astronomy | .2 | .4 | .3 | .3 | .6 | .4 | .3 | .7 | .4 | .9 |
| Chemistry | 8.6 | 8.2 | 7.8 | 10.8 | 11.0 | 9.7 | 9.0 | 8.9 | 9.1 | 8.5 |
| Physics | 5.3 | 5.9 | 6.2 | 8.4 | 8.4 | 6.2 | 6.7 | 5.8 | 5.1 | 4.7 |
| Other physical sciences | .0 | .0 | .1 | .1 | .1 | .0 | .1 | .1 | .1 | .1 |
| Earth, atmospheric, and ocean sciences | 2.0 | 2.5 | 2.5 | 3.5 | 3.3 | 3.2 | 3.1 | 3.1 | 3.1 | 2.4 |
| Mathematics | 4.3 | 3.8 | 5.7 | 5.1 | 6.2 | 5.3 | 4.3 | 4.6 | 4.0 | 3.9 |
| Computer sciences | 4.9 | 4.8 | 5.1 | 3.9 | 3.8 | 3.1 | 4.0 | 4.2 | 4.3 | 5.0 |
| Biological sciences | 16.4 | 17.4 | 18.5 | 22.0 | 23.8 | 27.2 | 25.6 | 27.3 | 28.1 | 25.9 |
| Agricultural sciences | 4.4 | 4.5 | 3.0 | 3.2 | 3.0 | 3.4 | 3.6 | 3.9 | 3.1 | 3.9 |
| Psychology | 5.1 | 6.2 | 5.5 | 2.8 | 2.9 | 3.5 | 3.9 | 4.6 | 4.2 | 5.3 |
| Social sciences | 18.8 | 16.6 | 16.7 | 12.2 | 9.7 | 11.7 | 13.4 | 13.0 | 14.2 | 14.5 |
| | Non-U.S. citizens with temporary visas | | | | | | | | | |
| Science and engineering, total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Engineering, total | 34.5 | 33.9 | 34.3 | 35.3 | 36.1 | 34.8 | 34.0 | 33.2 | 30.3 | 32.0 |
| Aeronautical/astronautical | 1.2 | 1.4 | 1.2 | 1.3 | 1.3 | 1.2 | 1.3 | .9 | 1.1 | 1.0 |
| Chemical | 3.7 | 4.2 | 4.1 | 4.5 | 4.5 | 5.1 | 4.6 | 4.8 | 3.9 | 4.0 |
| Civil | 4.6 | 4.4 | 4.7 | 5.1 | 4.8 | 4.7 | 4.1 | 4.1 | 3.5 | 3.7 |
| Electrical | 9.0 | 9.0 | 8.7 | 9.8 | 10.2 | 9.6 | 9.5 | 9.1 | 8.8 | 10.2 |
| Industrial | 1.2 | 1.5 | 1.5 | 1.4 | 1.9 | 1.5 | 1.6 | 1.5 | 1.5 | 1.2 |
| Materials/metallurgical | 3.2 | 2.9 | 3.1 | 3.1 | 3.2 | 2.8 | 3.2 | 2.9 | 2.7 | 2.4 |
| Mechanical | 6.5 | 6.6 | 6.8 | 6.1 | 6.2 | 5.5 | 6.0 | 5.8 | 4.9 | 5.6 |
| Other engineering | 5.1 | 4.0 | 4.2 | 4.0 | 3.9 | 4.4 | 3.7 | 4.0 | 3.9 | 3.9 |
| Sciences, total | 65.5 | 66.1 | 65.7 | 64.7 | 63.9 | 65.2 | 66.0 | 66.8 | 69.7 | 68.0 |
| Physical sciences, total | 16.5 | 16.6 | 15.6 | 14.7 | 13.3 | 14.6 | 14.4 | 15.5 | 15.6 | 15.1 |
| Astronomy | .5 | .3 | .4 | .4 | .4 | .5 | .5 | .7 | .5 | .6 |
| Chemistry | 9.0 | 9.0 | 8.3 | 7.9 | 7.0 | 7.9 | 8.0 | 8.5 | 8.6 | 8.5 |
| Physics | 6.9 | 7.2 | 6.8 | 6.3 | 5.7 | 6.2 | 5.9 | 6.3 | 6.4 | 6.0 |
| Other physical sciences | .1 | .1 | .0 | .1 | .1 | .0 | .0 | .1 | .1 | .1 |
| Earth, atmospheric, and ocean sciences | 2.4 | 2.9 | 2.9 | 2.6 | 2.5 | 2.6 | 3.1 | 2.8 | 3.3 | 2.6 |
| Mathematics | 6.6 | 6.3 | 6.4 | 6.0 | 5.5 | 5.7 | 5.9 | 5.7 | 6.1 | 5.8 |
| Computer sciences | 4.4 | 4.5 | 4.3 | 4.6 | 5.2 | 4.8 | 4.4 | 4.2 | 4.6 | 4.7 |
| Biological sciences | 13.9 | 14.3 | 15.4 | 14.1 | 13.8 | 15.9 | 17.6 | 17.1 | 17.8 | 18.2 |
| Agricultural sciences | 5.7 | 5.8 | 5.5 | 6.0 | 6.1 | 5.6 | 5.2 | 5.9 | 6.3 | 5.4 |
| Psychology | 1.7 | 1.9 | 1.8 | 2.0 | 2.3 | 2.3 | 1.8 | 2.2 | 2.1 | 2.1 |
| Social sciences | 14.3 | 13.6 | 13.9 | 14.8 | 15.1 | 13.6 | 13.6 | 13.3 | 13.9 | 14.0 |

See explanatory information, if any, and SOURCE at end of table.

## Table 4a. Percentage distribution of science and engineering doctorates awarded, by major field and citizenship status of recipients: 1991-2000



| Field of study | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Citizenship unknown | | | | | | | | | |
| Science and engineering, total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Engineering, total | 22.9 | 27.3 | 28.7 | 23.3 | 26.1 | 25.3 | 17.4 | 23.9 | 21.4 | 26.0 |
| Aeronautical/astronautical | .4 | 3.0 | 1.2 | .8 | .9 | 1.3 | .6 | 1.6 | 1.0 | 1.0 |
| Chemical | 2.4 | 1.2 | 3.2 | 1.8 | 1.7 | 1.0 | 1.1 | 2.3 | 1.7 | 3.0 |
| Civil | 1.9 | 3.4 | 2.2 | 1.4 | 1.8 | 2.9 | 1.4 | 2.9 | 1.6 | 1.4 |
| Electrical | 6.2 | 6.1 | 5.9 | 7.8 | 8.8 | 8.0 | 5.4 | 6.6 | 6.3 | 9.8 |
| Industrial | .6 | .6 | .8 | .0 | .7 | .8 | .7 | .6 | .4 | .5 |
| Materials/metallurgical | 1.7 | 2.5 | 2.5 | 1.8 | 2.4 | 2.0 | 1.7 | 1.9 | 1.4 | 2.1 |
| Mechanical | 4.9 | 3.6 | 5.5 | 3.6 | 4.6 | 4.2 | 2.7 | 4.2 | 3.2 | 3.0 |
| Other engineering | 4.7 | 6.9 | 7.3 | 6.0 | 5.1 | 5.0 | 3.9 | 3.7 | 5.8 | 5.2 |
| Sciences, total | 77.1 | 72.7 | 71.3 | 76.7 | 73.9 | 74.7 | 82.6 | 76.1 | 78.6 | 74.0 |
| Physical sciences, total | 14.7 | 12.2 | 14.0 | 16.3 | 12.8 | 16.3 | 14.0 | 13.4 | 14.7 | 13.5 |
| Astronomy | .4 | .0 | .0 | .0 | .7 | .1 | .2 | .6 | .4 | .3 |
| Chemistry | 9.4 | 6.9 | 8.2 | 8.9 | 8.3 | 9.3 | 8.2 | 7.3 | 8.6 | 8.4 |
| Physics | 4.7 | 5.0 | 5.7 | 6.6 | 3.9 | 6.9 | 5.4 | 5.4 | 5.7 | 4.7 |
| Other physical sciences | .2 | .3 | .1 | .8 | .0 | .0 | .2 | .1 | .0 | .1 |
| Earth, atmospheric, and ocean sciences | 2.6 | 2.7 | 4.2 | 2.8 | 2.4 | 4.0 | 3.1 | 2.9 | 3.3 | 3.6 |
| Mathematics | 3.2 | 6.2 | 5.2 | 2.6 | 6.8 | 4.1 | 3.9 | 4.8 | 2.9 | 3.0 |
| Computer sciences | 1.9 | 2.3 | 3.0 | 3.4 | 2.9 | 4.0 | 4.4 | 3.0 | 3.2 | 3.3 |
| Biological sciences | 14.1 | 11.2 | 12.4 | 11.5 | 14.3 | 15.1 | 15.8 | 16.4 | 14.9 | 16.2 |
| Agricultural sciences | 3.8 | 2.8 | 2.0 | 1.8 | 1.7 | 2.6 | 3.0 | 2.5 | 1.2 | 2.1 |
| Psychology | 21.2 | 18.9 | 14.7 | 18.5 | 14.9 | 10.5 | 22.1 | 18.6 | 21.9 | 18.8 |
| Social sciences | 15.6 | 16.4 | 15.9 | 19.7 | 18.2 | 18.4 | 16.2 | 14.4 | 16.6 | 13.5 |

**SOURCE:** National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates

## Table 5. Non-U.S. citizens awarded doctorates in the sciences and in engineering, by country of citizenship, visa type, and year of doctorate: 1991-2000



| Country of citizenship | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Total non-U.S. citizens, S&E | | | | | | | | | |
| Total foreign citizenship | 8,926 | 9,475 | 9,754 | 10,542 | 10,502 | 10,815 | 9,779 | 9,790 | 8,868 | 9,057 |
| North America, total | 525 | 515 | 506 | 547 | 505 | 530 | 462 | 545 | 532 | 605 |
| Canada | 297 | 304 | 285 | 275 | 274 | 276 | 249 | 278 | 282 | 289 |
| Caribbean | 54 | 44 | 38 | 61 | 60 | 51 | 46 | 61 | 52 | 52 |
| Central America | 46 | 52 | 44 | 69 | 43 | 45 | 35 | 42 | 39 | 55 |
| Mexico | 128 | 115 | 139 | 142 | 128 | 158 | 132 | 164 | 159 | 209 |
| South America, total | 387 | 394 | 394 | 408 | 359 | 454 | 388 | 411 | 420 | 433 |
| Argentina | 62 | 86 | 53 | 56 | 49 | 66 | 67 | 70 | 53 | 76 |
| Brazil | 119 | 133 | 151 | 157 | 137 | 204 | 145 | 152 | 157 | 126 |
| Chile | 54 | 48 | 52 | 42 | 38 | 36 | 29 | 24 | 33 | 43 |
| Colombia | 49 | 37 | 35 | 48 | 45 | 42 | 38 | 26 | 45 | 54 |
| South America, other | 103 | 90 | 103 | 105 | 90 | 106 | 109 | 139 | 132 | 134 |
| Europe, total | 972 | 950 | 1,104 | 1,150 | 1,254 | 1,260 | 1,276 | 1,477 | 1,460 | 1,494 |
| Belgium | 43 | 42 | 24 | 21 | 32 | 25 | 17 | 17 | 21 | 20 |
| England, United Kingdom | 132 | 137 | 154 | 128 | 132 | 117 | 89 | 124 | 141 | 99 |
| France | 67 | 77 | 93 | 96 | 83 | 68 | 73 | 76 | 79 | 82 |
| Germany | 118 | 124 | 164 | 196 | 208 | 170 | 178 | 205 | 178 | 228 |
| Europe, other | 612 | 570 | 669 | 709 | 799 | 880 | 919 | 1,055 | 1,041 | 1,065 |
| East Asia, total | 4,486 | 4,865 | 5,010 | 5,484 | 5,486 | 5,597 | 4,555 | 4,531 | 4,069 | 4,249 |
| Taiwan | 1,127 | 1,242 | 1,213 | 1,301 | 1,240 | 1,149 | 1,022 | 891 | 733 | 669 |
| China, People's Republic of | 1,793 | 2,045 | 2,227 | 2,531 | 2,751 | 2,954 | 2,288 | 2,413 | 2,182 | 2,358 |
| Hong Kong | 121 | 109 | 109 | 95 | 90 | 110 | 84 | 83 | 53 | 45 |
| Japan | 125 | 132 | 132 | 182 | 155 | 167 | 149 | 152 | 156 | 197 |
| Korea | 1,114 | 1,127 | 1,123 | 1,150 | 1,005 | 979 | 848 | 794 | 740 | 746 |
| Thailand | 93 | 87 | 77 | 97 | 113 | 119 | 87 | 115 | 130 | 147 |
| East Asia, other | 113 | 123 | 129 | 128 | 132 | 119 | 77 | 83 | 75 | 87 |
| West Asia, total | 1,670 | 1,891 | 1,903 | 2,077 | 2,181 | 2,140 | 1,914 | 1,750 | 1,595 | 1,559 |
| India | 752 | 861 | 933 | 1,065 | 1,207 | 1,257 | 1,210 | 1,082 | 889 | 821 |
| Iran | 227 | 200 | 203 | 174 | 173 | 147 | 112 | 91 | 92 | 80 |
| Iraq | 24 | 34 | 17 | 22 | 14 | 9 | 7 | 5 | 5 | 2 |
| Israel | 89 | 87 | 89 | 109 | 86 | 84 | 59 | 58 | 47 | 45 |
| Lebanon | 55 | 62 | 50 | 73 | 56 | 53 | 30 | 37 | 24 | 27 |
| Saudi Arabia | 67 | 76 | 46 | 76 | 71 | 74 | 61 | 39 | 48 | 53 |
| Turkey | 100 | 132 | 136 | 144 | 166 | 147 | 160 | 161 | 187 | 266 |
| West Asia, other | 356 | 439 | 429 | 414 | 408 | 369 | 275 | 277 | 303 | 265 |
| Pacific/Australasia, total | 216 | 220 | 227 | 231 | 231 | 232 | 196 | 192 | 156 | 178 |
| Australia | 35 | 40 | 47 | 56 | 61 | 42 | 47 | 46 | 46 | 42 |
| Indonesia | 69 | 78 | 78 | 83 | 83 | 69 | 62 | 60 | 44 | 61 |
| Pacific/Australasia, other | 112 | 102 | 102 | 92 | 87 | 121 | 87 | 86 | 66 | 75 |
| Africa, total | 500 | 510 | 474 | 583 | 423 | 442 | 335 | 339 | 327 | 347 |
| Egypt | 112 | 101 | 88 | 104 | 78 | 89 | 70 | 84 | 61 | 79 |
| Nigeria | 83 | 68 | 55 | 60 | 53 | 39 | 23 | 34 | 34 | 22 |
| Africa, other | 305 | 341 | 331 | 419 | 292 | 314 | 242 | 221 | 232 | 246 |
| Country unknown | 170 | 130 | 136 | 62 | 63 | 160 | 653 | 545 | 329 | 192 |

See explanatory information, if any, and SOURCE at end of table.

## Table 5. Non-U.S. citizens awarded doctorates in the sciences and in engineering, by country of citizenship, visa type, and year of doctorate: 1991-2000



| Country of citizenship | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Total non-U.S. citizens, engineering | | | | | | | | | |
| Total foreign citizenship | 3,021 | 3,154 | 3,253 | 3,491 | 3,480 | 3,513 | 3,144 | 3,061 | 2,593 | 2,794 |
| North America, total | 84 | 73 | 82 | 90 | 82 | 96 | 81 | 92 | 109 | 118 |
| Canada | 54 | 46 | 42 | 36 | 41 | 45 | 44 | 35 | 51 | 49 |
| Caribbean | 3 | 5 | 4 | 14 | 7 | 8 | 12 | 15 | 12 | 8 |
| Central America | 5 | 6 | 9 | 10 | 8 | 6 | 2 | 6 | 5 | 6 |
| Mexico | 22 | 16 | 27 | 30 | 26 | 37 | 23 | 36 | 41 | 55 |
| South America, total | 86 | 87 | 97 | 111 | 88 | 117 | 92 | 97 | 91 | 106 |
| Argentina | 12 | 14 | 10 | 7 | 7 | 8 | 14 | 13 | 8 | 11 |
| Brazil | 34 | 31 | 46 | 49 | 46 | 65 | 43 | 47 | 40 | 35 |
| Chile | 8 | 10 | 5 | 8 | 8 | 8 | 1 | 1 | 6 | 9 |
| Colombia | 11 | 9 | 8 | 12 | 10 | 7 | 4 | 7 | 7 | 15 |
| South America, other | 21 | 23 | 28 | 35 | 17 | 29 | 30 | 29 | 30 | 36 |
| Europe, total | 200 | 202 | 244 | 257 | 297 | 236 | 233 | 294 | 275 | 294 |
| Belgium | 9 | 10 | 7 | 7 | 12 | 4 | 4 | 3 | 1 | 5 |
| England, United Kingdom | 14 | 17 | 18 | 14 | 20 | 10 | 12 | 12 | 14 | 11 |
| France | 19 | 25 | 32 | 32 | 24 | 25 | 11 | 23 | 23 | 23 |
| Germany | 8 | 18 | 23 | 29 | 37 | 16 | 27 | 29 | 36 | 45 |
| Europe, other | 150 | 132 | 164 | 175 | 204 | 181 | 179 | 227 | 201 | 210 |
| East Asia, total | 1,629 | 1,701 | 1,733 | 1,887 | 1,869 | 1,852 | 1,472 | 1,450 | 1,249 | 1,403 |
| Taiwan | 597 | 637 | 592 | 670 | 616 | 572 | 432 | 378 | 301 | 285 |
| China, People's Republic of | 477 | 508 | 543 | 656 | 773 | 804 | 636 | 668 | 580 | 711 |
| Hong Kong | 30 | 37 | 32 | 14 | 20 | 31 | 13 | 26 | 11 | 12 |
| Japan | 29 | 25 | 23 | 46 | 30 | 32 | 37 | 20 | 30 | 23 |
| Korea | 435 | 437 | 484 | 429 | 344 | 323 | 299 | 282 | 264 | 284 |
| Thailand | 20 | 21 | 18 | 34 | 38 | 43 | 38 | 51 | 51 | 58 |
| East Asia, other | 41 | 36 | 41 | 38 | 48 | 47 | 17 | 25 | 12 | 30 |
| West Asia, total | 768 | 863 | 889 | 908 | 961 | 982 | 907 | 805 | 658 | 662 |
| India | 357 | 405 | 448 | 480 | 572 | 617 | 586 | 518 | 369 | 354 |
| Iran | 123 | 110 | 95 | 92 | 85 | 66 | 60 | 43 | 42 | 38 |
| Iraq | 11 | 14 | 6 | 9 | 8 | 2 | 5 | 3 | 5 | 2 |
| Israel | 27 | 26 | 23 | 17 | 19 | 20 | 13 | 12 | 8 | 6 |
| Lebanon | 38 | 37 | 27 | 45 | 31 | 21 | 9 | 18 | 9 | 12 |
| Saudi Arabia | 26 | 31 | 19 | 28 | 25 | 34 | 30 | 17 | 24 | 17 |
| Turkey | 64 | 81 | 74 | 64 | 73 | 73 | 95 | 79 | 96 | 132 |
| West Asia, other | 122 | 159 | 197 | 173 | 148 | 149 | 109 | 115 | 105 | 101 |
| Pacific/Australasia, total | 45 | 48 | 43 | 50 | 44 | 38 | 46 | 46 | 24 | 44 |
| Australia | 7 | 11 | 6 | 11 | 7 | 6 | 8 | 4 | 8 | 4 |
| Indonesia | 19 | 24 | 29 | 28 | 29 | 15 | 22 | 27 | 13 | 27 |
| Pacific/Australasia, other | 19 | 13 | 8 | 11 | 8 | 17 | 16 | 15 | 3 | 13 |
| Africa, total | 155 | 138 | 121 | 168 | 122 | 143 | 105 | 106 | 95 | 107 |
| Egypt | 57 | 48 | 48 | 63 | 48 | 59 | 45 | 60 | 48 | 59 |
| Nigeria | 20 | 11 | 12 | 6 | 14 | 11 | 8 | 7 | 8 | 3 |
| Africa, other | 78 | 81 | 61 | 99 | 60 | 73 | 52 | 39 | 39 | 45 |
| Country unknown | 54 | 42 | 44 | 20 | 17 | 49 | 208 | 171 | 92 | 60 |

See explanatory information, if any, and SOURCE at end of table.

## Table 5. Non-U.S. citizens awarded doctorates in the sciences and in engineering, by country of citizenship, visa type, and year of doctorate: 1991-2000



| Country of citizenship | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Total non-U.S. citizens, sciences | | | | | | | | | |
| Total foreign citizenship | 5,905 | 6,321 | 6,501 | 7,051 | 7,022 | 7,302 | 6,635 | 6,729 | 6,295 | 6,263 |
| North America, total | 441 | 442 | 424 | 457 | 423 | 434 | 381 | 453 | 423 | 487 |
| Canada | 243 | 258 | 243 | 239 | 233 | 231 | 205 | 243 | 231 | 240 |
| Caribbean | 51 | 39 | 34 | 47 | 53 | 43 | 34 | 46 | 40 | 44 |
| Central America | 41 | 46 | 35 | 59 | 35 | 39 | 33 | 36 | 34 | 49 |
| Mexico | 106 | 99 | 112 | 112 | 102 | 121 | 109 | 128 | 118 | 154 |
| South America, total | 301 | 307 | 297 | 297 | 271 | 337 | 296 | 314 | 329 | 327 |
| Argentina | 50 | 72 | 43 | 49 | 42 | 58 | 53 | 57 | 45 | 65 |
| Brazil | 85 | 102 | 105 | 108 | 91 | 139 | 102 | 105 | 117 | 91 |
| Chile | 46 | 38 | 47 | 34 | 30 | 28 | 28 | 23 | 27 | 34 |
| Colombia | 38 | 28 | 27 | 36 | 35 | 35 | 34 | 19 | 38 | 39 |
| South America, other | 82 | 67 | 75 | 70 | 73 | 77 | 79 | 110 | 102 | 98 |
| Europe, total | 772 | 748 | 860 | 893 | 957 | 1,024 | 1,043 | 1,183 | 1,185 | 1,200 |
| Belgium | 34 | 32 | 17 | 14 | 20 | 21 | 13 | 14 | 20 | 15 |
| England, United Kingdom | 118 | 120 | 136 | 114 | 112 | 107 | 77 | 112 | 127 | 88 |
| France | 48 | 52 | 61 | 64 | 59 | 43 | 62 | 53 | 56 | 59 |
| Germany | 110 | 106 | 141 | 167 | 171 | 154 | 151 | 176 | 142 | 183 |
| Europe, other | 462 | 438 | 505 | 534 | 595 | 699 | 740 | 828 | 840 | 855 |
| East Asia, total | 2,857 | 3,164 | 3,277 | 3,597 | 3,617 | 3,745 | 3,083 | 3,081 | 2,820 | 2,846 |
| Taiwan | 530 | 605 | 621 | 631 | 624 | 577 | 590 | 513 | 432 | 384 |
| China, People's Republic of | 1,316 | 1,537 | 1,684 | 1,875 | 1,978 | 2,150 | 1,652 | 1,745 | 1,602 | 1,647 |
| Hong Kong | 91 | 72 | 77 | 81 | 70 | 79 | 71 | 57 | 42 | 33 |
| Japan | 96 | 107 | 109 | 136 | 125 | 135 | 112 | 132 | 126 | 174 |
| Korea | 679 | 690 | 639 | 721 | 661 | 656 | 549 | 512 | 476 | 462 |
| Thailand | 73 | 66 | 59 | 63 | 75 | 76 | 49 | 64 | 79 | 89 |
| East Asia, other | 72 | 87 | 88 | 90 | 84 | 72 | 60 | 58 | 63 | 57 |
| West Asia, total | 902 | 1,028 | 1,014 | 1,169 | 1,220 | 1,158 | 1,007 | 945 | 937 | 897 |
| India | 395 | 456 | 485 | 585 | 635 | 640 | 624 | 564 | 520 | 467 |
| Iran | 104 | 90 | 108 | 82 | 88 | 81 | 52 | 48 | 50 | 42 |
| Iraq | 13 | 20 | 11 | 13 | 6 | 7 | 2 | 2 | 0 | 0 |
| Israel | 62 | 61 | 66 | 92 | 67 | 64 | 46 | 46 | 39 | 39 |
| Lebanon | 17 | 25 | 23 | 28 | 25 | 32 | 21 | 19 | 15 | 15 |
| Saudi Arabia | 41 | 45 | 27 | 48 | 46 | 40 | 31 | 22 | 24 | 36 |
| Turkey | 36 | 51 | 62 | 80 | 93 | 74 | 65 | 82 | 91 | 134 |
| West Asia, other | 234 | 280 | 232 | 241 | 260 | 220 | 166 | 162 | 198 | 164 |
| Pacific/Australasia, total | 171 | 172 | 184 | 181 | 187 | 194 | 150 | 146 | 132 | 134 |
| Australia | 28 | 29 | 41 | 45 | 54 | 36 | 39 | 42 | 38 | 38 |
| Indonesia | 50 | 54 | 49 | 55 | 54 | 54 | 40 | 33 | 31 | 34 |
| Pacific/Australasia, other | 93 | 89 | 94 | 81 | 79 | 104 | 71 | 71 | 63 | 62 |
| Africa, total | 345 | 372 | 353 | 415 | 301 | 299 | 230 | 233 | 232 | 240 |
| Egypt | 55 | 55 | 40 | 41 | 30 | 30 | 25 | 24 | 13 | 20 |
| Nigeria | 63 | 57 | 43 | 54 | 39 | 28 | 15 | 27 | 26 | 19 |
| Africa, other | 227 | 260 | 270 | 320 | 232 | 241 | 190 | 182 | 193 | 201 |
| Country unknown | 116 | 88 | 92 | 42 | 46 | 111 | 445 | 374 | 237 | 132 |

See explanatory information, if any, and SOURCE at end of table.

## Table 5. Non-U.S. citizens awarded doctorates in the sciences and in engineering, by country of citizenship, visa type, and year of doctorate: 1991-2000



| Country of citizenship | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Permanent visas, S&E | | | | | | | | | |
| Total foreign citizenship | 1,285 | 1,383 | 1,641 | 3,021 | 3,509 | 3,009 | 2,280 | 2,016 | 1,652 | 1,409 |
| North America, total | 126 | 118 | 120 | 119 | 135 | 119 | 104 | 112 | 100 | 91 |
| Canada | 75 | 76 | 71 | 58 | 78 | 70 | 53 | 66 | 56 | 51 |
| Caribbean | 19 | 16 | 15 | 28 | 26 | 27 | 20 | 21 | 20 | 17 |
| Central America | 11 | 8 | 6 | 14 | 8 | 2 | 8 | 5 | 12 | 5 |
| Mexico | 21 | 18 | 28 | 19 | 23 | 20 | 23 | 20 | 12 | 18 |
| South America, total | 62 | 74 | 63 | 64 | 51 | 64 | 70 | 50 | 49 | 49 |
| Argentina | 16 | 17 | 17 | 13 | 9 | 17 | 20 | 6 | 9 | 12 |
| Brazil | 8 | 21 | 11 | 16 | 11 | 11 | 7 | 11 | 10 | 10 |
| Chile | 6 | 6 | 7 | 4 | 9 | 5 | 8 | 7 | 11 | 6 |
| Colombia | 11 | 9 | 5 | 13 | 8 | 10 | 6 | 5 | 4 | 9 |
| South America, other | 21 | 21 | 23 | 18 | 14 | 21 | 29 | 21 | 15 | 12 |
| Europe, total | 211 | 210 | 258 | 275 | 284 | 312 | 338 | 359 | 336 | 339 |
| Belgium | 8 | 8 | 8 | 4 | 7 | 8 | 8 | 3 | 6 | 5 |
| England, United Kingdom | 52 | 58 | 47 | 56 | 49 | 50 | 39 | 43 | 51 | 36 |
| France | 12 | 10 | 19 | 16 | 15 | 16 | 23 | 25 | 15 | 19 |
| Germany | 25 | 39 | 45 | 62 | 53 | 51 | 42 | 43 | 33 | 60 |
| Europe, other | 114 | 95 | 139 | 137 | 160 | 187 | 226 | 245 | 231 | 219 |
| East Asia, total | 407 | 486 | 663 | 2,001 | 2,487 | 1,937 | 1,237 | 1,076 | 744 | 565 |
| Taiwan | 160 | 172 | 155 | 178 | 165 | 136 | 148 | 103 | 78 | 66 |
| China, People's Republic of | 100 | 162 | 352 | 1,642 | 2,169 | 1,630 | 954 | 845 | 530 | 379 |
| Hong Kong | 16 | 28 | 20 | 20 | 15 | 18 | 15 | 14 | 11 | 8 |
| Japan | 20 | 18 | 20 | 30 | 19 | 23 | 24 | 22 | 27 | 35 |
| Korea | 91 | 83 | 91 | 99 | 87 | 93 | 80 | 71 | 79 | 61 |
| Thailand | 8 | 9 | 11 | 11 | 10 | 14 | 4 | 8 | 3 | 4 |
| East Asia, other | 12 | 14 | 14 | 21 | 22 | 23 | 12 | 13 | 16 | 12 |
| West Asia, total | 287 | 340 | 359 | 375 | 383 | 388 | 315 | 259 | 285 | 234 |
| India | 108 | 148 | 142 | 173 | 168 | 198 | 187 | 135 | 135 | 108 |
| Iran | 83 | 82 | 100 | 65 | 84 | 74 | 37 | 38 | 46 | 40 |
| Iraq | 3 | 8 | 4 | 7 | 5 | 4 | 1 | 3 | 3 | 1 |
| Israel | 18 | 15 | 22 | 41 | 21 | 17 | 17 | 17 | 16 | 9 |
| Lebanon | 10 | 6 | 11 | 12 | 11 | 11 | 6 | 7 | 9 | 5 |
| Saudi Arabia | 2 | 7 | 4 | 7 | 4 | 10 | 1 | 0 | 3 | 3 |
| Turkey | 11 | 20 | 18 | 15 | 19 | 23 | 21 | 17 | 22 | 26 |
| West Asia, other | 52 | 54 | 58 | 55 | 71 | 51 | 45 | 42 | 51 | 42 |
| Pacific/Australasia, total | 34 | 23 | 35 | 40 | 43 | 32 | 30 | 25 | 31 | 30 |
| Australia | 9 | 9 | 10 | 13 | 10 | 13 | 9 | 6 | 18 | 11 |
| Indonesia | 9 | 5 | 6 | 13 | 16 | 3 | 8 | 7 | 5 | 11 |
| Pacific/Australasia, other | 16 | 9 | 19 | 14 | 17 | 16 | 13 | 12 | 8 | 8 |
| Africa, total | 103 | 95 | 100 | 123 | 91 | 83 | 83 | 82 | 78 | 83 |
| Egypt | 13 | 9 | 9 | 12 | 12 | 11 | 12 | 12 | 9 | 16 |
| Nigeria | 35 | 34 | 30 | 33 | 32 | 17 | 7 | 15 | 20 | 11 |
| Africa, other | 55 | 52 | 61 | 78 | 47 | 55 | 64 | 55 | 49 | 56 |
| Country unknown | 55 | 37 | 43 | 24 | 35 | 74 | 103 | 53 | 29 | 18 |

See explanatory information, if any, and SOURCE at end of table.

## Table 5. Non-U.S. citizens awarded doctorates in the sciences and in engineering, by country of citizenship, visa type, and year of doctorate: 1991-2000



| Country of citizenship | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Permanent visas, engineering | | | | | | | | | |
| Total foreign citizenship | 388 | 411 | 469 | 838 | 956 | 793 | 593 | 479 | 403 | 350 |
| North America, total | 17 | 13 | 16 | 14 | 23 | 15 | 14 | 17 | 19 | 13 |
| Canada | 14 | 8 | 9 | 6 | 9 | 6 | 7 | 8 | 10 | 7 |
| Caribbean | 0 | 2 | 2 | 4 | 3 | 5 | 4 | 5 | 5 | 3 |
| Central America | 2 | 2 | 1 | 2 | 4 | 0 | 1 | 0 | 2 | 0 |
| Mexico | 1 | 1 | 4 | 2 | 7 | 4 | 2 | 4 | 2 | 3 |
| South America, total | 12 | 14 | 8 | 13 | 7 | 9 | 12 | 7 | 6 | 6 |
| Argentina | 5 | 4 | 2 | 1 | 1 | 3 | 5 | 0 | 0 | 1 |
| Brazil | 2 | 2 | 1 | 2 | 2 | 3 | 2 | 2 | 3 | 0 |
| Chile | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 2 | 1 |
| Colombia | 1 | 2 | 1 | 4 | 1 | 1 | 2 | 1 | 0 | 3 |
| South America, other | 4 | 5 | 4 | 5 | 2 | 2 | 3 | 4 | 1 | 1 |
| Europe, total | 33 | 33 | 42 | 49 | 68 | 58 | 70 | 69 | 56 | 68 |
| Belgium | 1 | 2 | 2 | 1 | 1 | 1 | 3 | 0 | 1 | 1 |
| England, United Kingdom | 3 | 8 | 4 | 7 | 9 | 4 | 4 | 6 | 7 | 4 |
| France | 4 | 3 | 4 | 5 | 3 | 5 | 3 | 6 | 4 | 8 |
| Germany | 0 | 5 | 3 | 11 | 8 | 6 | 6 | 4 | 3 | 11 |
| Europe, other | 25 | 15 | 29 | 25 | 47 | 42 | 54 | 53 | 41 | 44 |
| East Asia, total | 166 | 163 | 221 | 576 | 696 | 517 | 317 | 253 | 191 | 156 |
| Taiwan | 88 | 80 | 73 | 89 | 76 | 77 | 57 | 39 | 38 | 27 |
| China, People's Republic of | 25 | 39 | 88 | 426 | 566 | 380 | 215 | 182 | 108 | 99 |
| Hong Kong | 7 | 10 | 10 | 7 | 5 | 9 | 4 | 4 | 5 | 1 |
| Japan | 5 | 3 | 2 | 5 | 2 | 2 | 3 | 0 | 1 | 3 |
| Korea | 36 | 25 | 43 | 42 | 34 | 36 | 36 | 20 | 33 | 24 |
| Thailand | 1 | 2 | 1 | 1 | 4 | 3 | 0 | 5 | 2 | 1 |
| East Asia, other | 4 | 4 | 4 | 6 | 9 | 10 | 2 | 3 | 4 | 1 |
| West Asia, total | 118 | 144 | 151 | 140 | 119 | 151 | 121 | 96 | 100 | 76 |
| India | 44 | 57 | 56 | 61 | 55 | 77 | 65 | 43 | 39 | 27 |
| Iran | 42 | 44 | 43 | 28 | 29 | 29 | 17 | 19 | 19 | 16 |
| Iraq | 0 | 2 | 2 | 5 | 3 | 0 | 1 | 2 | 3 | 1 |
| Israel | 4 | 5 | 6 | 6 | 0 | 0 | 2 | 2 | 2 | 0 |
| Lebanon | 4 | 4 | 6 | 5 | 3 | 8 | 2 | 5 | 7 | 1 |
| Saudi Arabia | 0 | 1 | 2 | 3 | 3 | 3 | 0 | 0 | 2 | 1 |
| Turkey | 5 | 10 | 6 | 6 | 7 | 12 | 15 | 4 | 11 | 13 |
| West Asia, other | 19 | 21 | 30 | 26 | 19 | 22 | 19 | 21 | 17 | 17 |
| Pacific/Australasia, total | 5 | 7 | 6 | 12 | 9 | 4 | 7 | 7 | 6 | 6 |
| Australia | 2 | 4 | 1 | 4 | 0 | 2 | 1 | 0 | 4 | 1 |
| Indonesia | 3 | 2 | 4 | 7 | 7 | 0 | 4 | 6 | 1 | 4 |
| Pacific/Australasia, other | 0 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 1 |
| Africa, total | 25 | 23 | 14 | 28 | 28 | 24 | 22 | 20 | 21 | 22 |
| Egypt | 4 | 3 | 3 | 4 | 9 | 4 | 5 | 8 | 6 | 10 |
| Nigeria | 9 | 6 | 3 | 2 | 10 | 5 | 1 | 2 | 5 | 2 |
| Africa, other | 12 | 14 | 8 | 22 | 9 | 15 | 16 | 10 | 10 | 10 |
| Country unknown | 12 | 14 | 11 | 6 | 6 | 15 | 30 | 10 | 4 | 3 |

See explanatory information, if any, and SOURCE at end of table.

## Table 5. Non-U.S. citizens awarded doctorates in the sciences and in engineering, by country of citizenship, visa type, and year of doctorate: 1991-2000



| Country of citizenship | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Permanent visas, sciences | | | | | | | | | |
| Total foreign citizenship | 897 | 972 | 1,172 | 2,183 | 2,553 | 2,216 | 1,687 | 1,537 | 1,249 | 1,059 |
| North America, total | 109 | 105 | 104 | 105 | 112 | 104 | 90 | 95 | 81 | 78 |
| Canada | 61 | 68 | 62 | 52 | 69 | 64 | 46 | 58 | 46 | 44 |
| Caribbean | 19 | 14 | 13 | 24 | 23 | 22 | 16 | 16 | 15 | 14 |
| Central America | 9 | 6 | 5 | 12 | 4 | 2 | 7 | 5 | 10 | 5 |
| Mexico | 20 | 17 | 24 | 17 | 16 | 16 | 21 | 16 | 10 | 15 |
| South America, total | 50 | 60 | 55 | 51 | 44 | 55 | 58 | 43 | 43 | 43 |
| Argentina | 11 | 13 | 15 | 12 | 8 | 14 | 15 | 6 | 9 | 11 |
| Brazil | 6 | 19 | 10 | 14 | 9 | 8 | 5 | 9 | 7 | 10 |
| Chile | 6 | 5 | 7 | 3 | 8 | 5 | 8 | 7 | 9 | 5 |
| Colombia | 10 | 7 | 4 | 9 | 7 | 9 | 4 | 4 | 4 | 6 |
| South America, other | 17 | 16 | 19 | 13 | 12 | 19 | 26 | 17 | 14 | 11 |
| Europe, total | 178 | 177 | 216 | 226 | 216 | 254 | 268 | 290 | 280 | 271 |
| Belgium | 7 | 6 | 6 | 3 | 6 | 7 | 5 | 3 | 5 | 4 |
| England, United Kingdom | 49 | 50 | 43 | 49 | 40 | 46 | 35 | 37 | 44 | 32 |
| France | 8 | 7 | 15 | 11 | 12 | 11 | 20 | 19 | 11 | 11 |
| Germany | 25 | 34 | 42 | 51 | 45 | 45 | 36 | 39 | 30 | 49 |
| Europe, other | 89 | 80 | 110 | 112 | 113 | 145 | 172 | 192 | 190 | 175 |
| East Asia, total | 241 | 323 | 442 | 1,425 | 1,791 | 1,420 | 920 | 823 | 553 | 409 |
| Taiwan | 72 | 92 | 82 | 89 | 89 | 59 | 91 | 64 | 40 | 39 |
| China, People's Republic of | 75 | 123 | 264 | 1,216 | 1,603 | 1,250 | 739 | 663 | 422 | 280 |
| Hong Kong | 9 | 18 | 10 | 13 | 10 | 9 | 11 | 10 | 6 | 7 |
| Japan | 15 | 15 | 18 | 25 | 17 | 21 | 21 | 22 | 26 | 32 |
| Korea | 55 | 58 | 48 | 57 | 53 | 57 | 44 | 51 | 46 | 37 |
| Thailand | 7 | 7 | 10 | 10 | 6 | 11 | 4 | 3 | 1 | 3 |
| East Asia, other | 8 | 10 | 10 | 15 | 13 | 13 | 10 | 10 | 12 | 11 |
| West Asia, total | 169 | 196 | 208 | 235 | 264 | 237 | 194 | 163 | 185 | 158 |
| India | 64 | 91 | 86 | 112 | 113 | 121 | 122 | 92 | 96 | 81 |
| Iran | 41 | 38 | 57 | 37 | 55 | 45 | 20 | 19 | 27 | 24 |
| Iraq | 3 | 6 | 2 | 2 | 2 | 4 | 0 | 1 | 0 | 0 |
| Israel | 14 | 10 | 16 | 35 | 21 | 17 | 15 | 15 | 14 | 9 |
| Lebanon | 6 | 2 | 5 | 7 | 8 | 3 | 4 | 2 | 2 | 4 |
| Saudi Arabia | 2 | 6 | 2 | 4 | 1 | 7 | 1 | 0 | 1 | 2 |
| Turkey | 6 | 10 | 12 | 9 | 12 | 11 | 6 | 13 | 11 | 13 |
| West Asia, other | 33 | 33 | 28 | 29 | 52 | 29 | 26 | 21 | 34 | 25 |
| Pacific/Australasia, total | 29 | 16 | 29 | 28 | 34 | 28 | 23 | 18 | 25 | 24 |
| Australia | 7 | 5 | 9 | 9 | 10 | 11 | 8 | 6 | 14 | 10 |
| Indonesia | 6 | 3 | 2 | 6 | 9 | 3 | 4 | 1 | 4 | 7 |
| Pacific/Australasia, other | 16 | 8 | 18 | 13 | 15 | 14 | 11 | 11 | 7 | 7 |
| Africa, total | 78 | 72 | 86 | 95 | 63 | 59 | 61 | 62 | 57 | 61 |
| Egypt | 9 | 6 | 6 | 8 | 3 | 7 | 7 | 4 | 3 | 6 |
| Nigeria | 26 | 28 | 27 | 31 | 22 | 12 | 6 | 13 | 15 | 9 |
| Africa, other | 43 | 38 | 53 | 56 | 38 | 40 | 48 | 45 | 39 | 46 |
| Country unknown | 43 | 23 | 32 | 18 | 29 | 59 | 73 | 43 | 25 | 15 |

See explanatory information, if any, and SOURCE at end of table.

BEST COPY AVAILABLE

## Table 5. Non-U.S. citizens awarded doctorates in the sciences and in engineering, by country of citizenship, visa type, and year of doctorate: 1991-2000



| Country of citizenship | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Temporary visas, S&E | | | | | | | | | |
| Total foreign citizenship | 7,641 | 8,092 | 8,113 | 7,521 | 6,993 | 7,806 | 7,499 | 7,774 | 7,236 | 7,648 |
| North America, total | 399 | 397 | 386 | 428 | 370 | 411 | 358 | 433 | 432 | 514 |
| Canada | 222 | 228 | 214 | 217 | 196 | 206 | 196 | 212 | 226 | 238 |
| Caribbean | 35 | 28 | 23 | 33 | 34 | 24 | 26 | 40 | 32 | 35 |
| Central America | 35 | 44 | 38 | 55 | 35 | 43 | 27 | 37 | 27 | 50 |
| Mexico | 107 | 97 | 111 | 123 | 105 | 138 | 109 | 144 | 147 | 191 |
| South America, total | 325 | 320 | 331 | 344 | 308 | 390 | 318 | 361 | 371 | 384 |
| Argentina | 46 | 69 | 36 | 43 | 40 | 49 | 47 | 64 | 44 | 64 |
| Brazil | 111 | 112 | 140 | 141 | 126 | 193 | 138 | 141 | 147 | 116 |
| Chile | 48 | 42 | 45 | 38 | 29 | 31 | 21 | 17 | 22 | 37 |
| Colombia | 38 | 28 | 30 | 35 | 37 | 32 | 32 | 21 | 41 | 45 |
| South America, other | 82 | 69 | 80 | 87 | 76 | 85 | 80 | 118 | 117 | 122 |
| Europe, total | 761 | 740 | 846 | 875 | 970 | 948 | 938 | 1,118 | 1,124 | 1,155 |
| Belgium | 35 | 34 | 16 | 17 | 25 | 17 | 9 | 14 | 15 | 15 |
| England, United Kingdom | 80 | 79 | 107 | 72 | 83 | 67 | 50 | 81 | 90 | 63 |
| France | 55 | 67 | 74 | 80 | 68 | 52 | 50 | 51 | 64 | 63 |
| Germany | 93 | 85 | 119 | 134 | 155 | 119 | 136 | 162 | 145 | 168 |
| Europe, other | 498 | 475 | 530 | 572 | 639 | 693 | 693 | 810 | 810 | 846 |
| East Asia, total | 4,079 | 4,379 | 4,347 | 3,483 | 2,999 | 3,660 | 3,318 | 3,455 | 3,325 | 3,684 |
| Taiwan | 967 | 1,070 | 1,058 | 1,123 | 1,075 | 1,013 | 874 | 788 | 655 | 603 |
| China, People's Republic of | 1,693 | 1,883 | 1,875 | 889 | 582 | 1,324 | 1,334 | 1,568 | 1,652 | 1,979 |
| Hong Kong | 105 | 81 | 89 | 75 | 75 | 92 | 69 | 69 | 42 | 37 |
| Japan | 105 | 114 | 112 | 152 | 136 | 144 | 125 | 130 | 129 | 162 |
| Korea | 1,023 | 1,044 | 1,032 | 1,051 | 918 | 886 | 768 | 723 | 661 | 685 |
| Thailand | 85 | 78 | 66 | 86 | 103 | 105 | 83 | 107 | 127 | 143 |
| East Asia, other | 101 | 109 | 115 | 107 | 110 | 96 | 65 | 70 | 59 | 75 |
| West Asia, total | 1,383 | 1,551 | 1,544 | 1,702 | 1,798 | 1,752 | 1,599 | 1,491 | 1,310 | 1,325 |
| India | 644 | 713 | 791 | 892 | 1,039 | 1,059 | 1,023 | 947 | 754 | 713 |
| Iran | 144 | 118 | 103 | 109 | 89 | 73 | 75 | 53 | 46 | 40 |
| Iraq | 21 | 26 | 13 | 15 | 9 | 5 | 6 | 2 | 2 | 1 |
| Israel | 71 | 72 | 67 | 68 | 65 | 67 | 42 | 41 | 31 | 36 |
| Lebanon | 45 | 56 | 39 | 61 | 45 | 42 | 24 | 30 | 15 | 22 |
| Saudi Arabia | 65 | 69 | 42 | 69 | 67 | 64 | 60 | 39 | 45 | 50 |
| Turkey | 89 | 112 | 118 | 129 | 147 | 124 | 139 | 144 | 165 | 240 |
| West Asia, other | 304 | 385 | 371 | 359 | 337 | 318 | 230 | 235 | 252 | 223 |
| Pacific/Australasia, total | 182 | 197 | 192 | 191 | 188 | 200 | 166 | 167 | 125 | 148 |
| Australia | 26 | 31 | 37 | 43 | 51 | 29 | 38 | 40 | 28 | 31 |
| Indonesia | 60 | 73 | 72 | 70 | 67 | 66 | 54 | 53 | 39 | 50 |
| Pacific/Australasia, other | 96 | 93 | 83 | 78 | 70 | 105 | 74 | 74 | 58 | 67 |
| Africa, total | 397 | 415 | 374 | 460 | 332 | 359 | 252 | 257 | 249 | 264 |
| Egypt | 99 | 92 | 79 | 92 | 66 | 78 | 58 | 72 | 52 | 63 |
| Nigeria | 48 | 34 | 25 | 27 | 21 | 22 | 16 | 19 | 14 | 11 |
| Africa, other | 250 | 289 | 270 | 341 | 245 | 259 | 178 | 166 | 183 | 190 |
| Country unknown | 115 | 93 | 93 | 38 | 28 | 86 | 550 | 492 | 300 | 174 |

See explanatory information, if any, and SOURCE at end of table.

## Table 5. Non-U.S. citizens awarded doctorates in the sciences and in engineering, by country of citizenship, visa type, and year of doctorate: 1991-2000



| Country of citizenship | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Temporary visas, engineering | | | | | | | | | |
| Total foreign citizenship | 2,633 | 2,743 | 2,784 | 2,653 | 2,524 | 2,720 | 2,551 | 2,582 | 2,190 | 2,444 |
| North America, total | 67 | 60 | 66 | 76 | 59 | 81 | 67 | 75 | 90 | 105 |
| Canada | 40 | 38 | 33 | 30 | 32 | 39 | 37 | 27 | 41 | 42 |
| Caribbean | 3 | 3 | 2 | 10 | 4 | 3 | 8 | 10 | 7 | 5 |
| Central America | 3 | 4 | 8 | 8 | 4 | 6 | 1 | 6 | 3 | 6 |
| Mexico | 21 | 15 | 23 | 28 | 19 | 33 | 21 | 32 | 39 | 52 |
| South America, total | 74 | 73 | 89 | 98 | 81 | 108 | 80 | 90 | 85 | 100 |
| Argentina | 7 | 10 | 8 | 6 | 6 | 5 | 9 | 13 | 8 | 10 |
| Brazil | 32 | 29 | 45 | 47 | 44 | 62 | 41 | 45 | 37 | 35 |
| Chile | 8 | 9 | 5 | 7 | 7 | 8 | 1 | 1 | 4 | 8 |
| Colombia | 10 | 7 | 7 | 8 | 9 | 6 | 2 | 6 | 7 | 12 |
| South America, other | 17 | 18 | 24 | 30 | 15 | 27 | 27 | 25 | 29 | 35 |
| Europe, total | 167 | 169 | 202 | 208 | 229 | 178 | 163 | 225 | 219 | 226 |
| Belgium | 8 | 8 | 5 | 6 | 11 | 3 | 1 | 3 | 0 | 4 |
| England, United Kingdom | 11 | 9 | 14 | 7 | 11 | 6 | 8 | 6 | 7 | 7 |
| France | 15 | 22 | 28 | 27 | 21 | 20 | 8 | 17 | 19 | 15 |
| Germany | 8 | 13 | 20 | 18 | 29 | 10 | 21 | 25 | 33 | 34 |
| Europe, other | 125 | 117 | 135 | 150 | 157 | 139 | 125 | 174 | 160 | 166 |
| East Asia, total | 1,463 | 1,538 | 1,512 | 1,311 | 1,173 | 1,335 | 1,155 | 1,197 | 1,058 | 1,247 |
| Taiwan | 509 | 557 | 519 | 581 | 540 | 495 | 375 | 339 | 263 | 258 |
| China, People's Republic of | 452 | 469 | 455 | 230 | 207 | 424 | 421 | 486 | 472 | 612 |
| Hong Kong | 23 | 27 | 22 | 7 | 15 | 22 | 9 | 22 | 6 | 11 |
| Japan | 24 | 22 | 21 | 41 | 28 | 30 | 34 | 20 | 29 | 20 |
| Korea | 399 | 412 | 441 | 387 | 310 | 287 | 263 | 262 | 231 | 260 |
| Thailand | 19 | 19 | 17 | 33 | 34 | 40 | 38 | 46 | 49 | 57 |
| East Asia, other | 37 | 32 | 37 | 32 | 39 | 37 | 15 | 22 | 8 | 29 |
| West Asia, total | 650 | 719 | 738 | 768 | 842 | 831 | 786 | 709 | 558 | 586 |
| India | 313 | 348 | 392 | 419 | 517 | 540 | 521 | 475 | 330 | 327 |
| Iran | 81 | 66 | 52 | 64 | 56 | 37 | 43 | 24 | 23 | 22 |
| Iraq | 11 | 12 | 4 | 4 | 5 | 2 | 4 | 1 | 2 | 1 |
| Israel | 23 | 21 | 17 | 11 | 19 | 20 | 11 | 10 | 6 | 6 |
| Lebanon | 34 | 33 | 21 | 40 | 28 | 13 | 7 | 13 | 2 | 11 |
| Saudi Arabia | 26 | 30 | 17 | 25 | 22 | 31 | 30 | 17 | 22 | 16 |
| Turkey | 59 | 71 | 68 | 58 | 66 | 61 | 80 | 75 | 85 | 119 |
| West Asia, other | 103 | 138 | 167 | 147 | 129 | 127 | 90 | 94 | 88 | 84 |
| Pacific/Australasia, total | 40 | 41 | 37 | 38 | 35 | 34 | 39 | 39 | 18 | 38 |
| Australia | 5 | 7 | 5 | 7 | 7 | 4 | 7 | 4 | 4 | 3 |
| Indonesia | 16 | 22 | 25 | 21 | 22 | 15 | 18 | 21 | 12 | 23 |
| Pacific/Australasia, other | 19 | 12 | 7 | 10 | 6 | 15 | 14 | 14 | 2 | 12 |
| Africa, total | 130 | 115 | 107 | 140 | 94 | 119 | 83 | 86 | 74 | 85 |
| Egypt | 53 | 43 | 45 | 59 | 39 | 55 | 40 | 52 | 42 | 49 |
| Nigeria | 11 | 5 | 9 | 4 | 4 | 6 | 7 | 5 | 3 | 1 |
| Africa, other | 66 | 67 | 53 | 77 | 51 | 58 | 36 | 29 | 29 | 35 |
| Country unknown | 42 | 28 | 33 | 14 | 11 | 34 | 178 | 161 | 88 | 57 |

See explanatory information, if any, and SOURCE at end of table.

## Table 5. Non-U.S. citizens awarded doctorates in the sciences and in engineering, by country of citizenship, visa type, and year of doctorate: 1991-2000



| Country of citizenship | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Temporary visas, sciences | | | | | | | | | |
| Total foreign citizenship | 5,008 | 5,349 | 5,329 | 4,868 | 4,469 | 5,086 | 4,948 | 5,192 | 5,046 | 5,204 |
| North America, total | 332 | 337 | 320 | 352 | 311 | 330 | 291 | 358 | 342 | 409 |
| Canada | 182 | 190 | 181 | 187 | 164 | 167 | 159 | 185 | 185 | 196 |
| Caribbean | 32 | 25 | 21 | 23 | 30 | 21 | 18 | 30 | 25 | 30 |
| Central America | 32 | 40 | 30 | 47 | 31 | 37 | 26 | 31 | 24 | 44 |
| Mexico | 86 | 82 | 88 | 95 | 86 | 105 | 88 | 112 | 108 | 139 |
| South America, total | 251 | 247 | 242 | 246 | 227 | 282 | 238 | 271 | 286 | 284 |
| Argentina | 39 | 59 | 28 | 37 | 34 | 44 | 38 | 51 | 36 | 54 |
| Brazil | 79 | 83 | 95 | 94 | 82 | 131 | 97 | 96 | 110 | 81 |
| Chile | 40 | 33 | 40 | 31 | 22 | 23 | 20 | 16 | 18 | 29 |
| Colombia | 28 | 21 | 23 | 27 | 28 | 26 | 30 | 15 | 34 | 33 |
| South America, other | 65 | 51 | 56 | 57 | 61 | 58 | 53 | 93 | 88 | 87 |
| Europe, total | 594 | 571 | 644 | 667 | 741 | 770 | 775 | 893 | 905 | 929 |
| Belgium | 27 | 26 | 11 | 11 | 14 | 14 | 8 | 11 | 15 | 11 |
| England, United Kingdom | 69 | 70 | 93 | 65 | 72 | 61 | 42 | 75 | 83 | 56 |
| France | 40 | 45 | 46 | 53 | 47 | 32 | 42 | 34 | 45 | 48 |
| Germany | 85 | 72 | 99 | 116 | 126 | 109 | 115 | 137 | 112 | 134 |
| Europe, other | 373 | 358 | 395 | 422 | 482 | 554 | 568 | 636 | 650 | 680 |
| East Asia, total | 2,616 | 2,841 | 2,835 | 2,172 | 1,826 | 2,325 | 2,163 | 2,258 | 2,267 | 2,437 |
| Taiwan | 458 | 513 | 539 | 542 | 535 | 518 | 499 | 449 | 392 | 345 |
| China, People's Republic of | 1,241 | 1,414 | 1,420 | 659 | 375 | 900 | 913 | 1,082 | 1,180 | 1,367 |
| Hong Kong | 82 | 54 | 67 | 68 | 60 | 70 | 60 | 47 | 36 | 26 |
| Japan | 81 | 92 | 91 | 111 | 108 | 114 | 91 | 110 | 100 | 142 |
| Korea | 624 | 632 | 591 | 664 | 608 | 599 | 505 | 461 | 430 | 425 |
| Thailand | 66 | 59 | 49 | 53 | 69 | 65 | 45 | 61 | 78 | 86 |
| East Asia, other | 64 | 77 | 78 | 75 | 71 | 59 | 50 | 48 | 51 | 46 |
| West Asia, total | 733 | 832 | 806 | 934 | 956 | 921 | 813 | 782 | 752 | 739 |
| India | 331 | 365 | 399 | 473 | 522 | 519 | 502 | 472 | 424 | 386 |
| Iran | 63 | 52 | 51 | 45 | 33 | 36 | 32 | 29 | 23 | 18 |
| Iraq | 10 | 14 | 9 | 11 | 4 | 3 | 2 | 1 | 0 | 0 |
| Israel | 48 | 51 | 50 | 57 | 46 | 47 | 31 | 31 | 25 | 30 |
| Lebanon | 11 | 23 | 18 | 21 | 17 | 29 | 17 | 17 | 13 | 11 |
| Saudi Arabia | 39 | 39 | 25 | 44 | 45 | 33 | 30 | 22 | 23 | 34 |
| Turkey | 30 | 41 | 50 | 71 | 81 | 63 | 59 | 69 | 80 | 121 |
| West Asia, other | 201 | 247 | 204 | 212 | 208 | 191 | 140 | 141 | 164 | 139 |
| Pacific/Australasia, total | 142 | 156 | 155 | 153 | 153 | 166 | 127 | 128 | 107 | 110 |
| Australia | 21 | 24 | 32 | 36 | 44 | 25 | 31 | 36 | 24 | 28 |
| Indonesia | 44 | 51 | 47 | 49 | 45 | 51 | 36 | 32 | 27 | 27 |
| Pacific/Australasia, other | 77 | 81 | 76 | 68 | 64 | 90 | 60 | 60 | 56 | 55 |
| Africa, total | 267 | 300 | 267 | 320 | 238 | 240 | 169 | 171 | 175 | 179 |
| Egypt | 46 | 49 | 34 | 33 | 27 | 23 | 18 | 20 | 10 | 14 |
| Nigeria | 37 | 29 | 16 | 23 | 17 | 16 | 9 | 14 | 11 | 10 |
| Africa, other | 184 | 222 | 217 | 264 | 194 | 201 | 142 | 137 | 154 | 155 |
| Country unknown | 73 | 65 | 60 | 24 | 17 | 52 | 372 | 331 | 212 | 117 |

**SOURCE:** National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates

## Table 6. Institutions conferring science and engineering (S&E) doctorates, by State, institution, and major field: 2000

[To increase readability, fields span two pages and institutions are repeated on facing pages.]



| State and institution | S&E rank* | Total S&E | Engineering | | | | | | Physical sciences | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Total | Chemical | Civil | Electrical | Mechanical | Other engineering | Total | Physics & astronomy | Chemistry | Other physical sciences |
| Total, all institutions | - | 25,979 | 5,330 | 726 | 558 | 1,544 | 864 | 1,638 | 3,411 | 1,392 | 1,990 | 29 |
| Alabama, total | 27 | 303 | 67 | 9 | 5 | 16 | 13 | 24 | 40 | 21 | 19 | 0 |
| Auburn University | 69 | 127 | 26 | 6 | 1 | 7 | 5 | 7 | 14 | 3 | 11 | 0 |
| United States Sports Academy | 340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| University of Alabama | 121 | 59 | 17 | 3 | 3 | 5 | 3 | 3 | 10 | 3 | 7 | 0 |
| University of Alabama Birmingham | 103 | 79 | 8 | 0 | 1 | 0 | 1 | 6 | 7 | 6 | 1 | 0 |
| University of Alabama Huntsville | 184 | 29 | 16 | 0 | 0 | 4 | 4 | 8 | 9 | 9 | 0 | 0 |
| University of South Alabama | 273 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Alaska, total | 51 | 19 | 3 | 0 | 1 | 1 | 0 | 1 | 2 | 2 | 0 | 0 |
| University of Alaska Fairbanks | 228 | 19 | 3 | 0 | 1 | 1 | 0 | 1 | 2 | 2 | 0 | 0 |
| Arizona, total | 20 | 441 | 94 | 10 | 9 | 47 | 10 | 18 | 67 | 40 | 26 | 1 |
| Arizona State University Main | 51 | 164 | 55 | 4 | 6 | 30 | 6 | 9 | 19 | 10 | 9 | 0 |
| Northern Arizona University | 252 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| University of Arizona | 22 | 264 | 39 | 6 | 3 | 17 | 4 | 9 | 48 | 30 | 17 | 1 |
| Arkansas, total | 43 | 75 | 7 | 0 | 0 | 4 | 3 | 0 | 14 | 3 | 8 | 3 |
| U of Arkansas | 150 | 44 | 7 | 0 | 0 | 4 | 3 | 0 | 11 | 3 | 8 | 0 |
| U of Arkansas Little Rock | 309 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 |
| U of Arkansas for Med Sciences | 190 | 28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| California, total | 1 | 3,321 | 728 | 55 | 84 | 258 | 121 | 210 | 418 | 170 | 242 | 6 |
| Azusa Pacific University | 340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Biola University | 273 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CA Inst Integral Studies | 340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CA Inst Technology | 69 | 127 | 46 | 4 | 3 | 20 | 5 | 14 | 41 | 17 | 24 | 0 |
| CA Sch Prof Psych Berkeley | 129 | 54 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CA Sch Prof Psych Fresno | 164 | 37 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CA Sch Prof Psych Los Angeles | 158 | 40 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CA Sch Prof Psych San Diego | 120 | 62 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Claremont Graduate University | 154 | 42 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fielding Institute, The | 110 | 71 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fuller Theological Seminary CA | 177 | 31 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Graduate Theological Union | 333 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Loma Linda University | 190 | 28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Loma Linda U La Sierra Campus | 340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Naval Postgraduate School | 273 | 9 | 3 | 0 | 0 | 2 | 0 | 1 | 1 | 1 | 0 | 0 |
| Pacific Grad School of Psych | 169 | 36 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pepperdine University Malibu | 340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rand Grad Sch of Policy Studies | 288 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| San Diego State University | 217 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Santa Clara University | 309 | 3 | 3 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| School of Theology at Claremont | 340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Scripps Research Institute, The | 244 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 8 | 0 |
| Stanford University | 4 | 448 | 181 | 14 | 10 | 63 | 30 | 64 | 52 | 28 | 23 | 1 |
| United States International U | 280 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U of California Berkeley | 1 | 523 | 139 | 11 | 27 | 27 | 44 | 30 | 85 | 31 | 51 | 3 |
| U of California Davis | 18 | 303 | 64 | 3 | 17 | 12 | 8 | 24 | 36 | 10 | 26 | 0 |
| U of California Irvine | 54 | 158 | 30 | 2 | 6 | 5 | 6 | 11 | 32 | 5 | 25 | 2 |
| U of California Los Angeles | 10 | 377 | 75 | 8 | 10 | 33 | 15 | 9 | 47 | 26 | 21 | 0 |
| U of California Riverside | 106 | 77 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 5 | 5 | 0 |
| U of California San Diego | 28 | 240 | 44 | 1 | 0 | 20 | 3 | 20 | 41 | 23 | 18 | 0 |
| U of California San Francisco | 119 | 64 | 2 | 0 | 0 | 0 | 0 | 2 | 8 | 0 | 8 | 0 |
| U of California Santa Barbara | 49 | 167 | 58 | 11 | 0 | 28 | 3 | 16 | 21 | 10 | 11 | 0 |
| U of California Santa Cruz | 109 | 73 | 4 | 0 | 0 | 4 | 0 | 0 | 13 | 9 | 4 | 0 |

See explanatory information, if any, and SOURCE at end of table.

## Table 6. Institutions conferring science and engineering (S&E) doctorates, by State, institution, and major field: 2000

[To increase readability, fields span two pages and institutions are repeated on facing pages.]



| State and institution | Earth, atmos., & ocean sciences | Mathematics | Computer sciences | Biological & agricultural sciences | | | Psychology | Social sciences | Non-S&E, total | Grand total, all fields |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Total | Biological | Agricultural | | | | |
| Total, all institutions | 757 | 1,048 | 861 | 6,798 | 5,855 | 943 | 3,623 | 4,151 | 15,389 | 41,368 |
| Alabama, total | 3 | 14 | 7 | 103 | 80 | 23 | 45 | 24 | 215 | 518 |
| Auburn University | 0 | 7 | 3 | 38 | 15 | 23 | 29 | 10 | 59 | 186 |
| United States Sports Academy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 13 |
| University of Alabama | 1 | 3 | 1 | 7 | 7 | 0 | 8 | 12 | 88 | 147 |
| University of Alabama Birmingham | 0 | 3 | 1 | 50 | 50 | 0 | 8 | 2 | 46 | 125 |
| University of Alabama Huntsville | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 29 |
| University of South Alabama | 1 | 0 | 0 | 8 | 8 | 0 | 0 | 0 | 9 | 18 |
| Alaska, total | 6 | 0 | 0 | 6 | 4 | 2 | 0 | 2 | 1 | 20 |
| University of Alaska Fairbanks | 6 | 0 | 0 | 6 | 4 | 2 | 0 | 2 | 1 | 20 |
| Arizona, total | 32 | 15 | 12 | 103 | 82 | 21 | 40 | 78 | 297 | 738 |
| Arizona State University Main | 3 | 3 | 6 | 22 | 22 | 0 | 24 | 32 | 119 | 283 |
| Northern Arizona University | 0 | 0 | 0 | 8 | 5 | 3 | 0 | 5 | 39 | 52 |
| University of Arizona | 29 | 12 | 6 | 73 | 55 | 18 | 16 | 41 | 139 | 403 |
| Arkansas, total | 0 | 1 | 1 | 42 | 34 | 8 | 9 | 1 | 54 | 129 |
| U of Arkansas | 0 | 1 | 1 | 14 | 6 | 8 | 9 | 1 | 42 | 86 |
| U of Arkansas Little Rock | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 14 |
| U of Arkansas for Med Sciences | 0 | 0 | 0 | 28 | 28 | 0 | 0 | 0 | 1 | 29 |
| California, total | 81 | 125 | 124 | 733 | 683 | 50 | 575 | 537 | 1,385 | 4,706 |
| Azusa Pacific University | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 |
| Biola University | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 11 | 20 |
| CA Inst Integral Studies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| CA Inst Technology | 2 | 6 | 1 | 27 | 27 | 0 | 0 | 4 | 0 | 127 |
| CA Sch Prof Psych Berkeley | 0 | 0 | 0 | 0 | 0 | 0 | 54 | 0 | 1 | 55 |
| CA Sch Prof Psych Fresno | 0 | 0 | 0 | 0 | 0 | 0 | 37 | 0 | 0 | 37 |
| CA Sch Prof Psych Los Angeles | 0 | 0 | 0 | 0 | 0 | 0 | 40 | 0 | 1 | 41 |
| CA Sch Prof Psych San Diego | 0 | 0 | 0 | 0 | 0 | 0 | 62 | 0 | 0 | 62 |
| Claremont Graduate University | 0 | 4 | 2 | 1 | 1 | 0 | 14 | 21 | 53 | 95 |
| Fielding Institute, The | 0 | 0 | 0 | 0 | 0 | 0 | 68 | 3 | 50 | 121 |
| Fuller Theological Seminary CA | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 1 | 25 | 56 |
| Graduate Theological Union | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 20 | 21 |
| Loma Linda University | 0 | 0 | 0 | 19 | 19 | 0 | 9 | 0 | 11 | 39 |
| Loma Linda U La Sierra Campus | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 |
| Naval Postgraduate School | 0 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| Pacific Grad School of Psych | 0 | 0 | 0 | 0 | 0 | 0 | 36 | 0 | 0 | 36 |
| Pepperdine University Malibu | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 34 | 34 |
| Rand Grad Sch of Policy Studies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 6 |
| San Diego State University | 0 | 0 | 0 | 7 | 7 | 0 | 10 | 4 | 9 | 30 |
| Santa Clara University | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| School of Theology at Claremont | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 5 |
| Scripps Research Institute, The | 0 | 0 | 0 | 7 | 7 | 0 | 0 | 0 | 0 | 15 |
| Stanford University | 15 | 16 | 19 | 75 | 75 | 0 | 18 | 72 | 119 | 567 |
| United States International U | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 3 | 10 |
| U of California Berkeley | 10 | 30 | 21 | 91 | 83 | 8 | 26 | 121 | 228 | 751 |
| U of California Davis | 9 | 8 | 6 | 141 | 113 | 28 | 7 | 32 | 53 | 356 |
| U of California Irvine | 4 | 2 | 14 | 38 | 38 | 0 | 12 | 26 | 43 | 201 |
| U of California Los Angeles | 7 | 24 | 22 | 101 | 100 | 1 | 28 | 73 | 227 | 604 |
| U of California Riverside | 2 | 5 | 1 | 38 | 26 | 12 | 10 | 11 | 38 | 115 |
| U of California San Diego | 18 | 14 | 5 | 65 | 65 | 0 | 9 | 44 | 38 | 278 |
| U of California San Francisco | 0 | 0 | 0 | 51 | 51 | 0 | 0 | 3 | 17 | 81 |
| U of California Santa Barbara | 2 | 8 | 7 | 15 | 15 | 0 | 20 | 36 | 63 | 230 |
| U of California Santa Cruz | 8 | 4 | 4 | 15 | 14 | 1 | 6 | 19 | 17 | 90 |

See explanatory information, if any, and SOURCE at end of table.

BEST COPY AVAILABLE

## Table 6. Institutions conferring science and engineering (S&E) doctorates, by State, institution, and major field: 2000

[To increase readability, fields span two pages and institutions are repeated on facing pages.]



| State and institution | S&E rank* | Total S&E | Engineering | | | | | | Physical sciences | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Total | Chemical | Civil | Electrical | Mechanical | Other engineering | Total | Physics & astronomy | Chemistry | Other physical sciences |
| California, continued: | | | | | | | | | | | | |
| University of La Verne | 340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| University of the Pacific | 320 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 |
| University of San Diego | 340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| University of San Francisco | 291 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| University of Southern CA | 26 | 259 | 79 | 1 | 11 | 42 | 6 | 19 | 21 | 5 | 16 | 0 |
| Wright Institute, All Campuses | 200 | 26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Colorado, total | 17 | 498 | 119 | 13 | 25 | 27 | 12 | 42 | 76 | 35 | 41 | 0 |
| Colorado School of Mines | 151 | 43 | 25 | 8 | 0 | 0 | 0 | 17 | 7 | 3 | 4 | 0 |
| Colorado State University | 59 | 152 | 25 | 0 | 12 | 4 | 6 | 3 | 17 | 4 | 13 | 0 |
| University of Colorado Boulder | 37 | 202 | 61 | 5 | 12 | 19 | 6 | 19 | 49 | 28 | 21 | 0 |
| University of Colorado at Colorado Springs | 291 | 5 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| University of Colorado at Denver | 246 | 14 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| University of Colorado Health Science Center | 194 | 27 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| University of Denver | 161 | 39 | 3 | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 2 | 0 |
| University of Northern Colorado | 240 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 |
| Connecticut, total | 22 | 403 | 49 | 8 | 5 | 11 | 9 | 16 | 52 | 22 | 29 | 1 |
| University of Connecticut | 41 | 184 | 37 | 7 | 5 | 6 | 4 | 15 | 21 | 8 | 12 | 1 |
| University of New Haven | 340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wesleyan University | 252 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 3 | 0 |
| Yale University | 35 | 206 | 12 | 1 | 0 | 5 | 5 | 1 | 27 | 13 | 14 | 0 |
| Delaware, total | 38 | 121 | 36 | 18 | 3 | 4 | 7 | 4 | 14 | 4 | 10 | 0 |
| University of Delaware | 72 | 121 | 36 | 18 | 3 | 4 | 7 | 4 | 14 | 4 | 10 | 0 |
| Wilmington College | 340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| District of Columbia, total | 26 | 342 | 42 | 0 | 2 | 14 | 6 | 20 | 25 | 10 | 15 | 0 |
| American University | 154 | 42 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 3 | 3 | 0 |
| Catholic University of America | 194 | 27 | 6 | 0 | 0 | 2 | 3 | 1 | 5 | 2 | 3 | 0 |
| Gallaudet University | 297 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| George Washington University | 71 | 126 | 31 | 0 | 2 | 9 | 3 | 17 | 1 | 1 | 0 | 0 |
| Georgetown University | 104 | 78 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 |
| Howard University | 115 | 65 | 5 | 0 | 0 | 3 | 0 | 2 | 11 | 4 | 7 | 0 |
| Florida, total | 9 | 810 | 168 | 12 | 21 | 41 | 29 | 65 | 81 | 31 | 50 | 0 |
| Barry University | 333 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FL Agricultural and Mechanical U | 280 | 7 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Florida Atlantic University | 222 | 20 | 11 | 0 | 0 | 7 | 2 | 2 | 1 | 1 | 0 | 0 |
| Florida Institute of Technology | 210 | 22 | 10 | 0 | 0 | 7 | 1 | 2 | 3 | 1 | 2 | 0 |
| Florida International University | 201 | 25 | 3 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| Florida State University | 80 | 107 | 4 | 2 | 0 | 1 | 1 | 0 | 13 | 7 | 6 | 0 |
| Nova Southeastern University | 75 | 112 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| University of Central Florida | 142 | 47 | 27 | 0 | 1 | 7 | 5 | 14 | 9 | 9 | 0 | 0 |
| University of Florida | 19 | 291 | 77 | 7 | 12 | 13 | 13 | 32 | 39 | 11 | 28 | 0 |
| University of Miami | 82 | 106 | 17 | 0 | 1 | 2 | 4 | 10 | 9 | 2 | 7 | 0 |
| University of Sarasota | 297 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| University of South Florida | 113 | 68 | 18 | 3 | 7 | 2 | 2 | 4 | 7 | 0 | 7 | 0 |
| Georgia, total | 15 | 583 | 164 | 17 | 25 | 47 | 34 | 41 | 72 | 15 | 57 | 0 |
| Clark Atlanta University | 246 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 0 |
| Emory University | 88 | 94 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 3 | 12 | 0 |
| Georgia Inst of Tech | 31 | 223 | 159 | 15 | 25 | 47 | 34 | 38 | 22 | 5 | 17 | 0 |
| Georgia Southern University | 340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Georgia State University | 129 | 54 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 3 | 3 | 0 |
| Inst of Paper Science & Tech | 309 | 3 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Medical College of Georgia | 267 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| University of Georgia | 40 | 185 | 3 | 0 | 0 | 0 | 0 | 3 | 26 | 4 | 22 | 0 |
| Hawaii, total | 39 | 110 | 8 | 0 | 1 | 4 | 1 | 2 | 11 | 4 | 7 | 0 |
| University of Hawaii at Manoa | 76 | 110 | 8 | 0 | 1 | 4 | 1 | 2 | 11 | 4 | 7 | 0 |
| Idaho, total | 45 | 60 | 5 | 0 | 1 | 1 | 1 | 2 | 12 | 3 | 9 | 0 |
| Idaho State University | 267 | 10 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 |
| University of Idaho | 138 | 50 | 4 | 0 | 1 | 1 | 1 | 1 | 11 | 2 | 9 | 0 |

See explanatory information, if any, and SOURCE at end of table.

## Table 6. Institutions conferring science and engineering (S&E) doctorates, by State, institution, and major field: 2000

[To increase readability, fields span two pages and institutions are repeated on facing pages.]



| State and institution | Earth, atmos., & ocean sciences | Mathematics | Computer sciences | Biological & agricultural sciences | | | Psychology | Social sciences | Non-S&E, total | Grand total, all fields |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Total | Biological | Agricultural | | | | |
| California, continued: | | | | | | | | | | |
| University of La Verne | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 58 | 58 |
| University of the Pacific | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 20 |
| University of San Diego | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 13 |
| University of San Francisco | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 71 | 76 |
| University of Southern CA | 4 | 2 | 19 | 42 | 42 | 0 | 32 | 60 | 152 | 411 |
| Wright Institute, All Campuses | 0 | 0 | 0 | 0 | 0 | 0 | 26 | 0 | 0 | 26 |
| Colorado, total | 37 | 18 | 19 | 114 | 91 | 23 | 51 | 64 | 229 | 727 |
| Colorado School of Mines | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 43 |
| Colorado State University | 9 | 5 | 5 | 64 | 42 | 22 | 14 | 13 | 28 | 180 |
| University of Colorado Boulder | 16 | 7 | 11 | 17 | 16 | 1 | 8 | 33 | 65 | 267 |
| University of Colorado at Colorado Springs | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| University of Colorado at Denver | 1 | 5 | 0 | 0 | 0 | 0 | 0 | 7 | 11 | 25 |
| University of Colorado Health Science Center | 0 | 0 | 0 | 27 | 27 | 0 | 0 | 0 | 17 | 44 |
| University of Denver | 1 | 0 | 2 | 4 | 4 | 0 | 17 | 10 | 50 | 89 |
| University of Northern Colorado | 0 | 1 | 0 | 2 | 2 | 0 | 12 | 0 | 58 | 74 |
| Connecticut, total | 8 | 18 | 6 | 137 | 130 | 7 | 51 | 82 | 215 | 618 |
| University of Connecticut | 2 | 9 | 3 | 50 | 45 | 5 | 39 | 23 | 92 | 276 |
| University of New Haven | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 |
| Wesleyan University | 0 | 0 | 0 | 8 | 8 | 0 | 0 | 1 | 1 | 14 |
| Yale University | 6 | 9 | 3 | 79 | 77 | 2 | 12 | 58 | 119 | 325 |
| Delaware, total | 11 | 3 | 5 | 12 | 10 | 2 | 9 | 31 | 63 | 184 |
| University of Delaware | 11 | 3 | 5 | 12 | 10 | 2 | 9 | 31 | 44 | 165 |
| Wilmington College | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 19 |
| District of Columbia, total | 2 | 8 | 4 | 73 | 73 | 0 | 64 | 124 | 195 | 537 |
| American University | 1 | 0 | 0 | 1 | 1 | 0 | 5 | 29 | 10 | 52 |
| Catholic University of America | 0 | 0 | 0 | 1 | 1 | 0 | 10 | 5 | 56 | 83 |
| Gallaudet University | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 2 | 6 |
| George Washington University | 0 | 6 | 4 | 30 | 30 | 0 | 21 | 33 | 70 | 196 |
| Georgetown University | 0 | 0 | 0 | 33 | 33 | 0 | 4 | 39 | 31 | 109 |
| Howard University | 1 | 2 | 0 | 8 | 8 | 0 | 20 | 18 | 26 | 91 |
| Florida, total | 30 | 23 | 53 | 156 | 112 | 44 | 198 | 101 | 1,054 | 1,864 |
| Barry University | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 15 | 16 |
| FL Agricultural and Mechanical U | 0 | 0 | 0 | 6 | 6 | 0 | 0 | 0 | 1 | 8 |
| Florida Atlantic University | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 3 | 22 | 42 |
| Florida Institute of Technology | 1 | 3 | 2 | 3 | 3 | 0 | 0 | 0 | 3 | 25 |
| Florida International University | 0 | 0 | 1 | 4 | 4 | 0 | 6 | 11 | 33 | 58 |
| Florida State University | 17 | 6 | 5 | 10 | 9 | 1 | 23 | 29 | 154 | 261 |
| Nova Southeastern University | 1 | 0 | 27 | 1 | 1 | 0 | 77 | 6 | 478 | 590 |
| University of Central Florida | 0 | 2 | 5 | 0 | 0 | 0 | 4 | 0 | 19 | 66 |
| University of Florida | 2 | 10 | 8 | 92 | 50 | 42 | 27 | 36 | 103 | 394 |
| University of Miami | 7 | 1 | 0 | 27 | 26 | 1 | 37 | 8 | 38 | 144 |
| University of Sarasota | 0 | 0 | 1 | 0 | 0 | 0 | 3 | 0 | 133 | 137 |
| University of South Florida | 2 | 1 | 4 | 13 | 13 | 0 | 15 | 8 | 55 | 123 |
| Georgia, total | 10 | 17 | 15 | 151 | 125 | 26 | 88 | 66 | 352 | 935 |
| Clark Atlanta University | 0 | 0 | 0 | 4 | 4 | 0 | 0 | 7 | 24 | 38 |
| Emory University | 0 | 3 | 0 | 53 | 53 | 0 | 10 | 13 | 63 | 157 |
| Georgia Inst of Tech | 7 | 7 | 13 | 8 | 8 | 0 | 7 | 0 | 7 | 230 |
| Georgia Southern University | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 17 |
| Georgia State University | 0 | 1 | 2 | 6 | 6 | 0 | 21 | 18 | 71 | 125 |
| Inst of Paper Science & Tech | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 3 |
| Medical College of Georgia | 0 | 0 | 0 | 10 | 10 | 0 | 0 | 0 | 3 | 13 |
| University of Georgia | 3 | 6 | 0 | 69 | 44 | 25 | 50 | 28 | 167 | 352 |
| Hawaii, total | 6 | 3 | 0 | 23 | 19 | 4 | 9 | 50 | 42 | 152 |
| University of Hawaii at Manoa | 6 | 3 | 0 | 23 | 19 | 4 | 9 | 50 | 42 | 152 |
| Idaho, total | 1 | 3 | 1 | 29 | 13 | 16 | 3 | 6 | 39 | 99 |
| Idaho State University | 0 | 0 | 0 | 5 | 5 | 0 | 1 | 2 | 10 | 20 |
| University of Idaho | 1 | 3 | 1 | 24 | 8 | 16 | 2 | 4 | 29 | 79 |

See explanatory information, if any, and SOURCE at end of table.

## Table 6. Institutions conferring science and engineering (S&E) doctorates, by State, institution, and major field: 2000

[To increase readability, fields span two pages and institutions are repeated on facing pages.]



| State and institution | S&E rank* | Total S&E | Engineering | | | | | | Physical sciences | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Total | Chemical | Civil | Electrical | Mechanical | Other engineering | Total | Physics & astronomy | Chemistry | Other physical sciences |
| Illinois, total | 5 | 1,345 | 299 | 29 | 52 | 82 | 51 | 85 | 155 | 75 | 80 | 0 |
| De Paul University | 201 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Finch U Hlth Sci/Chgo Med Sch | 217 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| Illinois Institute Technology | 107 | 76 | 37 | 11 | 8 | 11 | 4 | 3 | 6 | 4 | 2 | 0 |
| Illinois State University | 280 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Inst for Clinical Social Work | 340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Loyola University of Chicago | 135 | 52 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 |
| Lutheran Sch Theology at Chicago | 340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Northern Illinois University | 190 | 28 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 0 |
| Northwestern University | 22 | 264 | 91 | 8 | 11 | 21 | 15 | 36 | 31 | 8 | 23 | 0 |
| Roosevelt University | 340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rush University | 252 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 |
| Southern Illinois U Carbondale | 135 | 52 | 5 | 0 | 2 | 2 | 0 | 1 | 1 | 1 | 0 | 0 |
| Southern Illinois U Edwardsville | 340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| University of Chicago | 27 | 248 | 0 | 0 | 0 | 0 | 0 | 0 | 44 | 26 | 18 | 0 |
| U of Illinois Chicago | 68 | 129 | 25 | 2 | 4 | 3 | 12 | 4 | 15 | 5 | 10 | 0 |
| U of Illinois Urbana-Champaign | 5 | 430 | 141 | 8 | 27 | 45 | 20 | 41 | 51 | 28 | 23 | 0 |
| Indiana, total | 11 | 702 | 149 | 19 | 24 | 39 | 31 | 36 | 125 | 36 | 85 | 4 |
| Ball State University | 246 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Indiana State University | 236 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| Indiana U Bloomington | 36 | 203 | 0 | 0 | 0 | 0 | 0 | 0 | 34 | 8 | 24 | 2 |
| Indiana U Purdue U Indianapolis | 340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Purdue University | 12 | 355 | 122 | 10 | 23 | 33 | 24 | 32 | 66 | 15 | 50 | 1 |
| University of Notre Dame | 74 | 113 | 27 | 9 | 1 | 6 | 7 | 4 | 24 | 13 | 11 | 0 |
| Iowa, total | 24 | 358 | 74 | 14 | 11 | 10 | 19 | 20 | 44 | 10 | 34 | 0 |
| Drake University | 340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Iowa State University | 38 | 200 | 47 | 7 | 5 | 9 | 11 | 15 | 25 | 3 | 22 | 0 |
| Maharishi U of Management | 291 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| University of Iowa | 58 | 153 | 27 | 7 | 6 | 1 | 8 | 5 | 19 | 7 | 12 | 0 |
| University of Northern Iowa | 340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kansas, total | 30 | 245 | 29 | 6 | 2 | 8 | 3 | 10 | 43 | 14 | 29 | 0 |
| Kansas State University | 89 | 92 | 9 | 4 | 0 | 1 | 1 | 3 | 14 | 7 | 7 | 0 |
| University of Kansas | 67 | 134 | 10 | 2 | 2 | 3 | 1 | 2 | 27 | 7 | 20 | 0 |
| Wichita State University | 228 | 19 | 10 | 0 | 0 | 4 | 1 | 5 | 2 | 0 | 2 | 0 |
| Kentucky, total | 33 | 211 | 33 | 10 | 2 | 8 | 4 | 9 | 18 | 3 | 15 | 0 |
| Southern Baptist Theological Sem | 340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spalding University | 340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| University of Kentucky | 50 | 165 | 21 | 6 | 2 | 4 | 4 | 5 | 13 | 3 | 10 | 0 |
| University of Louisville | 143 | 46 | 12 | 4 | 0 | 4 | 0 | 4 | 5 | 0 | 5 | 0 |
| Louisiana, total | 25 | 356 | 60 | 9 | 14 | 15 | 3 | 19 | 45 | 13 | 31 | 1 |
| Grambling State University | 340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| LA St U & A&M College | 45 | 172 | 28 | 5 | 10 | 6 | 0 | 7 | 25 | 9 | 16 | 0 |
| LA St U Medical Center | 252 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| LA St U Shreveport | 267 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Louisiana Tech University | 257 | 12 | 9 | 0 | 1 | 2 | 2 | 4 | 0 | 0 | 0 | 0 |
| New Orleans Baptist Theol Sem | 288 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Southern U A&M Col Baton Rouge | 340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tulane University | 97 | 83 | 12 | 4 | 0 | 2 | 1 | 5 | 9 | 4 | 5 | 0 |
| University of New Orleans | 164 | 37 | 7 | 0 | 3 | 1 | 0 | 3 | 11 | 0 | 10 | 1 |
| Univ of Louisiana at Lafayette | 222 | 20 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| Univ of Louisiana at Monroe | 309 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Maine, total | 48 | 41 | 6 | 1 | 0 | 1 | 1 | 3 | 13 | 5 | 6 | 2 |
| University of Maine | 156 | 41 | 6 | 1 | 0 | 1 | 1 | 3 | 13 | 5 | 6 | 2 |

See explanatory information, if any, and SOURCE at end of table.

## Table 6. Institutions conferring science and engineering (S&E) doctorates, by State, institution, and major field: 2000

[To increase readability, fields span two pages and institutions are repeated on facing pages.]



| State and institution | Earth, atmos., & ocean sciences | Mathematics | Computer sciences | Biological & agricultural sciences | | | Psychology | Social sciences | Non-S&E, total | Grand total, all fields |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Total | Biological | Agricultural | | | | |
| Illinois, total | 17 | 74 | 60 | 302 | 274 | 28 | 201 | 237 | 816 | 2,161 |
| De Paul University | 0 | 0 | 6 | 0 | 0 | 0 | 19 | 0 | 6 | 31 |
| Finch U Hlth Sci/Chgo Med Sch | 0 | 0 | 0 | 10 | 10 | 0 | 10 | 0 | 2 | 23 |
| Illinois Institute Technology | 0 | 0 | 19 | 6 | 6 | 0 | 8 | 0 | 2 | 78 |
| Illinois State University | 0 | 0 | 0 | 4 | 4 | 0 | 3 | 0 | 36 | 43 |
| Inst for Clinical Social Work | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 5 |
| Loyola University of Chicago | 0 | 0 | 0 | 20 | 20 | 0 | 25 | 6 | 111 | 163 |
| Lutheran Sch Theology at Chicago | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 9 |
| Northern Illinois University | 1 | 2 | 0 | 5 | 5 | 0 | 10 | 7 | 76 | 104 |
| Northwestern University | 5 | 14 | 4 | 49 | 49 | 0 | 28 | 42 | 96 | 360 |
| Roosevelt University | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 10 |
| Rush University | 0 | 0 | 0 | 11 | 11 | 0 | 0 | 0 | 9 | 22 |
| Southern Illinois U Carbondale | 1 | 3 | 0 | 13 | 12 | 1 | 17 | 12 | 67 | 119 |
| Southern Illinois U Edwardsville | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 |
| University of Chicago | 8 | 23 | 1 | 47 | 47 | 0 | 20 | 105 | 143 | 391 |
| U of Illinois Chicago | 0 | 12 | 1 | 48 | 48 | 0 | 18 | 10 | 72 | 201 |
| U of Illinois Urbana-Champaign | 2 | 20 | 29 | 89 | 62 | 27 | 43 | 55 | 170 | 600 |
| Indiana, total | 17 | 25 | 23 | 161 | 134 | 27 | 77 | 125 | 467 | 1,169 |
| Ball State University | 0 | 0 | 0 | 1 | 1 | 0 | 11 | 2 | 38 | 52 |
| Indiana State University | 1 | 0 | 0 | 3 | 3 | 0 | 7 | 5 | 36 | 53 |
| Indiana U Bloomington | 9 | 11 | 11 | 53 | 52 | 1 | 21 | 64 | 237 | 440 |
| Indiana U Purdue U Indianapolis | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 8 |
| Purdue University | 5 | 10 | 10 | 89 | 63 | 26 | 23 | 30 | 115 | 470 |
| University of Notre Dame | 2 | 4 | 2 | 15 | 15 | 0 | 15 | 24 | 33 | 146 |
| Iowa, total | 10 | 26 | 2 | 132 | 92 | 40 | 29 | 41 | 208 | 566 |
| Drake University | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Iowa State University | 7 | 15 | 0 | 76 | 36 | 40 | 12 | 18 | 38 | 238 |
| Maharishi U of Management | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 1 | 6 |
| University of Iowa | 3 | 11 | 2 | 56 | 56 | 0 | 13 | 22 | 161 | 314 |
| University of Northern Iowa | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 7 |
| Kansas, total | 7 | 13 | 3 | 59 | 41 | 18 | 54 | 37 | 170 | 415 |
| Kansas State University | 1 | 9 | 1 | 34 | 16 | 18 | 10 | 14 | 40 | 132 |
| University of Kansas | 6 | 4 | 2 | 24 | 24 | 0 | 38 | 23 | 123 | 257 |
| Wichita State University | 0 | 0 | 0 | 1 | 1 | 0 | 6 | 0 | 7 | 26 |
| Kentucky, total | 2 | 11 | 2 | 76 | 63 | 13 | 31 | 38 | 139 | 350 |
| Southern Baptist Theological Sem | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 13 |
| Spalding University | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 11 |
| University of Kentucky | 2 | 11 | 2 | 59 | 46 | 13 | 26 | 31 | 84 | 249 |
| University of Louisville | 0 | 0 | 0 | 17 | 17 | 0 | 5 | 7 | 31 | 77 |
| Louisiana, total | 7 | 19 | 14 | 108 | 79 | 29 | 45 | 58 | 253 | 609 |
| Grambling State University | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 15 |
| LA St U & A&M College | 5 | 6 | 6 | 47 | 18 | 29 | 23 | 32 | 103 | 275 |
| LA St U Medical Center | 0 | 0 | 0 | 13 | 13 | 0 | 0 | 0 | 10 | 23 |
| LA St U Shreveport | 0 | 0 | 0 | 10 | 10 | 0 | 0 | 0 | 0 | 10 |
| Louisiana Tech University | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 11 | 23 |
| New Orleans Baptist Theol Sem | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 22 | 28 |
| Southern U A&M Col Baton Rouge | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 |
| Tulane University | 2 | 4 | 5 | 31 | 31 | 0 | 7 | 13 | 42 | 125 |
| University of New Orleans | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 12 | 26 | 63 |
| Univ of Louisiana at Lafayette | 0 | 8 | 3 | 5 | 5 | 0 | 0 | 0 | 13 | 33 |
| Univ of Louisiana at Monroe | 0 | 0 | 0 | 2 | 2 | 0 | 1 | 0 | 9 | 12 |
| Maine, total | 2 | 0 | 2 | 13 | 9 | 4 | 3 | 2 | 8 | 49 |
| University of Maine | 2 | 0 | 2 | 13 | 9 | 4 | 3 | 2 | 8 | 49 |

See explanatory information, if any, and SOURCE at end of table.

## Table 6. Institutions conferring science and engineering (S&E) doctorates, by State, institution, and major field: 2000

[To increase readability, fields span two pages and institutions are repeated on facing pages.]



| State and institution | S&E rank* | Total S&E | Engineering | | | | | | Physical sciences | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Total | Chemical | Civil | Electrical | Mechanical | Other engineering | Total | Physics & astronomy | Chemistry | Other physical sciences |
| Maryland, total | 13 | 635 | 139 | 16 | 15 | 46 | 13 | 49 | 72 | 36 | 36 | 0 |
| Johns Hopkins University | 32 | 221 | 45 | 4 | 7 | 10 | 2 | 22 | 21 | 7 | 14 | 0 |
| Loyola College | 291 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Morgan State University | 333 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Peabody Inst of Johns Hopkins U | 340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Uniformed Services U of Hlth Sci | 257 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U of Maryland Baltimore | 158 | 40 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 |
| U of Maryland Baltimore County | 146 | 45 | 13 | 3 | 0 | 8 | 2 | 0 | 6 | 2 | 4 | 0 |
| U of Maryland College Park | 17 | 309 | 81 | 9 | 8 | 28 | 9 | 27 | 42 | 27 | 15 | 0 |
| U of Maryland Eastern Shore | 320 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 |
| Massachusetts, total | 4 | 1,452 | 318 | 64 | 13 | 108 | 41 | 92 | 230 | 119 | 110 | 1 |
| American International College | 320 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Boston College | 143 | 46 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 1 | 8 | 0 |
| Boston University | 61 | 150 | 20 | 0 | 0 | 9 | 1 | 10 | 19 | 13 | 6 | 0 |
| Brandeis University | 108 | 74 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 5 | 8 | 0 |
| Clark University | 207 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 3 | 0 |
| Harvard University | 16 | 322 | 8 | 0 | 1 | 1 | 0 | 6 | 57 | 32 | 25 | 0 |
| MA Col Pharmacy & Allied Health | 320 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 |
| Massachusetts Institute of Tech | 6 | 417 | 198 | 45 | 5 | 63 | 28 | 57 | 58 | 41 | 16 | 1 |
| New England Conserv of Music | 340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Northeastern University | 121 | 59 | 20 | 0 | 0 | 13 | 2 | 5 | 11 | 4 | 7 | 0 |
| Simmons College | 340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Smith College | 340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Springfield College | 340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tufts University | 97 | 83 | 12 | 3 | 3 | 3 | 2 | 1 | 12 | 3 | 9 | 0 |
| U of Massachusetts Amherst | 41 | 184 | 37 | 11 | 3 | 10 | 5 | 8 | 32 | 10 | 22 | 0 |
| U of Massachusetts Boston | 217 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U of Massachusetts Lowell | 177 | 31 | 13 | 3 | 1 | 6 | 2 | 1 | 11 | 8 | 3 | 0 |
| U of Massachusetts Worcester | 217 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Worcester Polytechnic Institute | 236 | 17 | 10 | 2 | 0 | 3 | 1 | 4 | 2 | 1 | 1 | 0 |
| Michigan, total | 8 | 993 | 265 | 23 | 20 | 74 | 78 | 70 | 131 | 47 | 84 | 0 |
| Andrews University | 280 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Central Michigan University | 280 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Eastern Michigan University | 340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Michigan State University | 21 | 269 | 36 | 7 | 4 | 11 | 11 | 3 | 39 | 13 | 26 | 0 |
| Michigan Technological U | 171 | 35 | 16 | 4 | 1 | 0 | 10 | 1 | 8 | 3 | 5 | 0 |
| Oakland University | 280 | 7 | 4 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 |
| University of Detroit Mercy | 240 | 16 | 3 | 1 | 0 | 2 | 0 | 0 | 1 | 0 | 1 | 0 |
| University of Michigan Ann Arbor | 3 | 463 | 179 | 10 | 10 | 59 | 44 | 56 | 57 | 27 | 30 | 0 |
| Wayne State University | 59 | 152 | 26 | 1 | 5 | 2 | 12 | 6 | 25 | 3 | 22 | 0 |
| Western Michigan University | 164 | 37 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 |
| Minnesota, total | 18 | 456 | 92 | 31 | 6 | 19 | 11 | 25 | 61 | 24 | 37 | 0 |
| Luther NW Theological Seminary | 340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mayo Sch Health-Related Sciences | 228 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U of Minnesota Twin Cities | 7 | 400 | 91 | 31 | 6 | 19 | 11 | 24 | 61 | 24 | 37 | 0 |
| University of St Thomas | 340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Walden University | 164 | 37 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Mississippi, total | 35 | 168 | 19 | 4 | 0 | 1 | 3 | 11 | 23 | 1 | 22 | 0 |
| Delta State University | 340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Jackson State University | 297 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mississippi State University | 102 | 80 | 13 | 1 | 0 | 0 | 2 | 10 | 4 | 0 | 4 | 0 |
| Reformed Theological Sem | 340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U of Mississippi | 201 | 25 | 3 | 0 | 0 | 1 | 1 | 1 | 6 | 1 | 5 | 0 |
| U of Mississippi Med Ctr | 263 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U of Southern Mississippi | 140 | 48 | 3 | 3 | 0 | 0 | 0 | 0 | 13 | 0 | 13 | 0 |

See explanatory information, if any, and SOURCE at end of table.

## Table 6. Institutions conferring science and engineering (S&E) doctorates, by State, institution, and major field: 2000

[To increase readability, fields span two pages and institutions are repeated on facing pages.]



| State and institution | Earth, atmos., & ocean sciences | Mathematics | Computer sciences | Biological & agricultural sciences | | | Psychology | Social sciences | Non-S&E, total | Grand total, all fields |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Total | Biological | Agricultural | | | | |
| Maryland, total | 22 | 30 | 24 | 187 | 184 | 3 | 56 | 105 | 319 | 954 |
| Johns Hopkins University | 6 | 11 | 7 | 92 | 92 | 0 | 2 | 37 | 111 | 332 |
| Loyola College | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 1 | 6 |
| Morgan State University | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 9 | 10 |
| Peabody Inst of Johns Hopkins U | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 9 |
| Uniformed Services U of Hlth Sci | 0 | 0 | 0 | 9 | 9 | 0 | 3 | 0 | 3 | 15 |
| U of Maryland Baltimore | 0 | 0 | 0 | 38 | 38 | 0 | 0 | 0 | 33 | 73 |
| U of Maryland Baltimore County | 0 | 2 | 3 | 6 | 6 | 0 | 10 | 5 | 2 | 47 |
| U of Maryland College Park | 15 | 17 | 14 | 42 | 39 | 3 | 36 | 62 | 151 | 460 |
| U of Maryland Eastern Shore | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Massachusetts, total | 37 | 48 | 53 | 361 | 347 | 14 | 96 | 309 | 652 | 2,104 |
| American International College | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 3 | 5 |
| Boston College | 0 | 0 | 0 | 9 | 9 | 0 | 16 | 12 | 68 | 114 |
| Boston University | 1 | 4 | 3 | 48 | 48 | 0 | 16 | 39 | 111 | 261 |
| Brandeis University | 0 | 2 | 3 | 29 | 29 | 0 | 4 | 23 | 34 | 108 |
| Clark University | 0 | 0 | 0 | 4 | 4 | 0 | 7 | 8 | 7 | 30 |
| Harvard University | 6 | 13 | 1 | 110 | 110 | 0 | 11 | 116 | 225 | 547 |
| MA Col Pharmacy & Allied Health | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Massachusetts Institute of Tech | 28 | 19 | 25 | 36 | 36 | 0 | 1 | 52 | 43 | 460 |
| New England Conserv of Music | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 |
| Northeastern University | 0 | 6 | 0 | 12 | 12 | 0 | 1 | 9 | 7 | 66 |
| Simmons College | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 5 |
| Smith College | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 7 |
| Springfield College | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 |
| Tufts University | 0 | 0 | 2 | 45 | 45 | 0 | 4 | 8 | 15 | 98 |
| U of Massachusetts Amherst | 0 | 3 | 11 | 43 | 29 | 14 | 22 | 36 | 92 | 276 |
| U of Massachusetts Boston | 2 | 0 | 0 | 2 | 2 | 0 | 12 | 5 | 10 | 31 |
| U of Massachusetts Lowell | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 1 | 21 | 52 |
| U of Massachusetts Worcester | 0 | 0 | 0 | 21 | 21 | 0 | 0 | 0 | 0 | 21 |
| Worcester Polytechnic Institute | 0 | 1 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 17 |
| Michigan, total | 18 | 35 | 31 | 216 | 179 | 37 | 127 | 170 | 485 | 1,478 |
| Andrews University | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 14 | 21 |
| Central Michigan University | 0 | 3 | 0 | 0 | 0 | 0 | 4 | 0 | 1 | 8 |
| Eastern Michigan University | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 11 |
| Michigan State University | 2 | 8 | 7 | 92 | 62 | 30 | 25 | 60 | 160 | 429 |
| Michigan Technological U | 1 | 0 | 0 | 9 | 5 | 4 | 1 | 0 | 8 | 43 |
| Oakland University | 0 | 0 | 0 | 3 | 3 | 0 | 0 | 0 | 4 | 11 |
| University of Detroit Mercy | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 0 | 16 |
| University of Michigan Ann Arbor | 15 | 19 | 19 | 71 | 68 | 3 | 36 | 67 | 190 | 653 |
| Wayne State University | 0 | 3 | 5 | 39 | 39 | 0 | 25 | 29 | 80 | 232 |
| Western Michigan University | 0 | 2 | 0 | 2 | 2 | 0 | 17 | 14 | 17 | 54 |
| Minnesota, total | 3 | 17 | 15 | 118 | 84 | 34 | 69 | 81 | 371 | 827 |
| Luther NW Theological Seminary | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 |
| Mayo Sch Health-Related Sciences | 0 | 0 | 0 | 19 | 19 | 0 | 0 | 0 | 0 | 19 |
| U of Minnesota Twin Cities | 3 | 17 | 15 | 99 | 65 | 34 | 37 | 77 | 284 | 684 |
| University of St Thomas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 | 21 |
| Walden University | 0 | 0 | 0 | 0 | 0 | 0 | 32 | 4 | 62 | 99 |
| Mississippi, total | 4 | 9 | 5 | 61 | 31 | 30 | 36 | 11 | 183 | 351 |
| Delta State University | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 |
| Jackson State University | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 12 | 16 |
| Mississippi State University | 0 | 4 | 4 | 46 | 16 | 30 | 3 | 6 | 48 | 128 |
| Reformed Theological Sem | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 5 |
| U of Mississippi | 0 | 1 | 0 | 0 | 0 | 0 | 11 | 4 | 55 | 80 |
| U of Mississippi Med Ctr | 0 | 0 | 0 | 11 | 11 | 0 | 0 | 0 | 1 | 12 |
| U of Southern Mississippi | 1 | 4 | 1 | 4 | 4 | 0 | 22 | 0 | 60 | 108 |

See explanatory information, if any, and SOURCE at end of table.

BEST COPY AVAILABLE

## Table 6. Institutions conferring science and engineering (S&E) doctorates, by State, institution, and major field: 2000

[To increase readability, fields span two pages and institutions are repeated on facing pages.]



| State and institution | S&E rank* | Total S&E | Engineering | | | | | | Physical sciences | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Total | Chemical | Civil | Electrical | Mechanical | Other engineering | Total | Physics & astronomy | Chemistry | Other physical sciences |
| Missouri, total | 19 | 452 | 85 | 6 | 5 | 21 | 10 | 43 | 52 | 21 | 31 | 0 |
| Concordia Seminary | 340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| St Louis University | 139 | 49 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| University of Missouri Columbia | 56 | 155 | 33 | 2 | 2 | 9 | 5 | 15 | 9 | 3 | 6 | 0 |
| University of Missouri Kansas City | 210 | 22 | 1 | 0 | 0 | 0 | 0 | 1 | 6 | 3 | 3 | 0 |
| University of Missouri Rolla | 146 | 45 | 25 | 2 | 1 | 4 | 4 | 14 | 13 | 6 | 7 | 0 |
| University of Missouri St Louis | 194 | 27 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 7 | 0 |
| Washington University | 57 | 154 | 26 | 2 | 2 | 8 | 1 | 13 | 16 | 8 | 8 | 0 |
| Montana, total | 47 | 42 | 2 | 0 | 2 | 0 | 0 | 0 | 9 | 2 | 7 | 0 |
| Montana St University Bozeman | 222 | 20 | 2 | 0 | 2 | 0 | 0 | 0 | 5 | 2 | 3 | 0 |
| University of Montana | 210 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 4 | 0 |
| Nebraska, total | 34 | 175 | 8 | 2 | 2 | 1 | 0 | 3 | 14 | 3 | 11 | 0 |
| Creighton University | 291 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U of Nebraska at Lincoln | 66 | 136 | 8 | 2 | 2 | 1 | 0 | 3 | 13 | 3 | 10 | 0 |
| U of Nebraska at Omaha | 280 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U of Nebraska Medical Center | 194 | 27 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 |
| Nevada, total | 41 | 77 | 8 | 0 | 0 | 4 | 2 | 2 | 13 | 4 | 9 | 0 |
| University of Nevada-Las Vegas | 257 | 12 | 4 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 |
| University of Nevada-Reno | 115 | 65 | 4 | 0 | 0 | 1 | 1 | 2 | 13 | 4 | 9 | 0 |
| New Hampshire, total | 44 | 72 | 4 | 0 | 0 | 0 | 1 | 3 | 16 | 5 | 9 | 2 |
| Dartmouth College | 164 | 37 | 3 | 0 | 0 | 0 | 0 | 3 | 9 | 3 | 5 | 1 |
| University of New Hampshire | 171 | 35 | 1 | 0 | 0 | 0 | 1 | 0 | 7 | 2 | 4 | 1 |
| New Jersey, total | 14 | 597 | 133 | 24 | 13 | 43 | 20 | 33 | 88 | 44 | 44 | 0 |
| Drew University | 297 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fairleigh Dickinson U | 267 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Jersey Institute Technology | 146 | 45 | 28 | 5 | 5 | 9 | 6 | 3 | 4 | 2 | 2 | 0 |
| Princeton Theological Seminary | 340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Princeton University | 34 | 210 | 47 | 10 | 5 | 19 | 7 | 6 | 41 | 26 | 15 | 0 |
| Rutgers St U NJ New Brunswick | 29 | 233 | 47 | 7 | 3 | 10 | 6 | 21 | 30 | 13 | 17 | 0 |
| Rutgers St U NJ Newark Campus | 179 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 3 | 0 |
| Seton Hall University | 263 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 5 | 0 |
| Stevens Institute of Technology | 206 | 24 | 11 | 2 | 0 | 5 | 1 | 3 | 4 | 2 | 2 | 0 |
| U of Medicine & Dentistry of NJ | 179 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Mexico, total | 37 | 158 | 39 | 8 | 3 | 15 | 5 | 8 | 28 | 20 | 8 | 0 |
| New Mexico Inst Mining & Tech | 263 | 11 | 7 | 6 | 0 | 0 | 0 | 1 | 2 | 2 | 0 | 0 |
| New Mexico State University | 124 | 57 | 14 | 1 | 3 | 4 | 4 | 2 | 16 | 12 | 4 | 0 |
| U of New Mexico, All Campuses | 93 | 90 | 18 | 1 | 0 | 11 | 1 | 5 | 10 | 6 | 4 | 0 |
| New York, total | 2 | 2,217 | 324 | 35 | 28 | 113 | 62 | 86 | 301 | 155 | 145 | 1 |
| Adelphi University | 169 | 36 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Albany Medical College | 309 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Alfred University | 263 | 11 | 5 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 |
| Clarkson University | 228 | 19 | 16 | 3 | 2 | 4 | 4 | 3 | 3 | 0 | 3 | 0 |
| Columbia U in City of New York | 20 | 274 | 32 | 4 | 1 | 13 | 3 | 11 | 51 | 24 | 27 | 0 |
| Cornell U Endowed Colleges | 13 | 354 | 78 | 9 | 8 | 32 | 6 | 23 | 50 | 31 | 19 | 0 |
| Cornell U Medical Campus | 179 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CUNY Grad School & U Center | 53 | 160 | 12 | 2 | 1 | 4 | 2 | 3 | 22 | 14 | 8 | 0 |
| Fordham University | 161 | 39 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hofstra University | 175 | 33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Jewish Theological Sem America | 340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Juilliard School | 340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Long Island University Brooklyn | 240 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New School University | 140 | 48 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New York Medical College | 246 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New York University | 44 | 176 | 2 | 0 | 1 | 0 | 1 | 0 | 12 | 3 | 9 | 0 |

See explanatory information, if any, and SOURCE at end of table.

## Table 6. Institutions conferring science and engineering (S&E) doctorates, by State, institution, and major field: 2000

[To increase readability, fields span two pages and institutions are repeated on facing pages.]



| State and institution | Earth, atmos., & ocean sciences | Mathematics | Computer sciences | Biological & agricultural sciences | | | Psychology | Social sciences | Non-S&E, total | Grand total, all fields |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Total | Biological | Agricultural | | | | |
| Missouri, total | 10 | 16 | 6 | 138 | 121 | 17 | 86 | 59 | 270 | 722 |
| Concordia Seminary | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 |
| St Louis University | 3 | 1 | 0 | 13 | 13 | 0 | 25 | 6 | 68 | 117 |
| University of Missouri Columbia | 1 | 10 | 1 | 46 | 29 | 17 | 29 | 26 | 103 | 258 |
| University of Missouri Kansas City | 0 | 1 | 1 | 5 | 5 | 0 | 6 | 2 | 41 | 63 |
| University of Missouri Rolla | 4 | 0 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 45 |
| University of Missouri St Louis | 0 | 0 | 0 | 5 | 5 | 0 | 11 | 4 | 10 | 37 |
| Washington University | 2 | 4 | 3 | 67 | 67 | 0 | 15 | 21 | 46 | 200 |
| Montana, total | 0 | 1 | 0 | 24 | 17 | 7 | 4 | 2 | 23 | 65 |
| Montana St University Bozeman | 0 | 1 | 0 | 10 | 7 | 3 | 0 | 2 | 12 | 32 |
| University of Montana | 0 | 0 | 0 | 14 | 10 | 4 | 4 | 0 | 11 | 33 |
| Nebraska, total | 4 | 8 | 4 | 75 | 46 | 29 | 26 | 36 | 122 | 297 |
| Creighton University | 0 | 0 | 0 | 5 | 5 | 0 | 0 | 0 | 0 | 5 |
| U of Nebraska at Lincoln | 4 | 8 | 4 | 44 | 15 | 29 | 26 | 29 | 115 | 251 |
| U of Nebraska at Omaha | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 1 | 8 |
| U of Nebraska Medical Center | 0 | 0 | 0 | 26 | 26 | 0 | 0 | 0 | 6 | 33 |
| Nevada, total | 11 | 0 | 0 | 21 | 21 | 0 | 15 | 9 | 38 | 115 |
| University of Nevada-Las Vegas | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 6 | 19 | 31 |
| University of Nevada-Reno | 11 | 0 | 0 | 19 | 19 | 0 | 15 | 3 | 19 | 84 |
| New Hampshire, total | 4 | 9 | 2 | 29 | 28 | 1 | 5 | 3 | 15 | 87 |
| Dartmouth College | 2 | 4 | 1 | 16 | 16 | 0 | 2 | 0 | 1 | 38 |
| University of New Hampshire | 2 | 5 | 1 | 13 | 12 | 1 | 3 | 3 | 14 | 49 |
| New Jersey, total | 13 | 36 | 33 | 149 | 132 | 17 | 38 | 107 | 286 | 883 |
| Drew University | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 21 | 25 |
| Fairleigh Dickinson U | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 10 |
| New Jersey Institute Technology | 1 | 4 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 45 |
| Princeton Theological Seminary | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 20 |
| Princeton University | 5 | 13 | 3 | 41 | 41 | 0 | 6 | 54 | 71 | 281 |
| Rutgers St U NJ New Brunswick | 7 | 15 | 13 | 69 | 52 | 17 | 13 | 39 | 108 | 341 |
| Rutgers St U NJ Newark Campus | 0 | 3 | 2 | 9 | 9 | 0 | 1 | 11 | 27 | 57 |
| Seton Hall University | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 38 | 49 |
| Stevens Institute of Technology | 0 | 1 | 7 | 0 | 0 | 0 | 1 | 0 | 1 | 25 |
| U of Medicine & Dentistry of NJ | 0 | 0 | 0 | 30 | 30 | 0 | 0 | 0 | 0 | 30 |
| New Mexico, total | 5 | 4 | 3 | 35 | 19 | 16 | 19 | 25 | 114 | 272 |
| New Mexico Inst Mining & Tech | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| New Mexico State University | 0 | 1 | 1 | 18 | 2 | 16 | 7 | 0 | 21 | 78 |
| U of New Mexico, All Campuses | 3 | 3 | 2 | 17 | 17 | 0 | 12 | 25 | 93 | 183 |
| New York, total | 59 | 98 | 73 | 552 | 504 | 48 | 362 | 448 | 1,281 | 3,498 |
| Adelphi University | 0 | 2 | 0 | 0 | 0 | 0 | 34 | 0 | 4 | 40 |
| Albany Medical College | 0 | 0 | 0 | 3 | 3 | 0 | 0 | 0 | 0 | 3 |
| Alfred University | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 3 | 14 |
| Clarkson University | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 |
| Columbia U in City of New York | 16 | 18 | 2 | 57 | 57 | 0 | 29 | 69 | 183 | 457 |
| Cornell U Endowed Colleges | 9 | 15 | 6 | 115 | 75 | 40 | 7 | 74 | 95 | 449 |
| Cornell U Medical Campus | 0 | 0 | 0 | 30 | 30 | 0 | 0 | 0 | 0 | 30 |
| CUNY Grad School & U Center | 4 | 10 | 8 | 29 | 29 | 0 | 39 | 36 | 108 | 268 |
| Fordham University | 0 | 0 | 0 | 1 | 1 | 0 | 22 | 16 | 56 | 95 |
| Hofstra University | 0 | 0 | 0 | 0 | 0 | 0 | 33 | 0 | 11 | 44 |
| Jewish Theological Sem America | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 |
| Juilliard School | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 8 |
| Long Island University Brooklyn | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 0 | 0 | 16 |
| New School University | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 30 | 4 | 52 |
| New York Medical College | 0 | 0 | 0 | 14 | 14 | 0 | 0 | 0 | 0 | 14 |
| New York University | 1 | 23 | 12 | 50 | 50 | 0 | 27 | 49 | 214 | 390 |

See explanatory information, if any, and SOURCE at end of table.

## Table 6. Institutions conferring science and engineering (S&E) doctorates, by State, institution, and major field: 2000

[To increase readability, fields span two pages and institutions are repeated on facing pages.]



| State and institution | S&E rank* | Total S&E | Engineering | | | | | | Physical sciences | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Total | Chemical | Civil | Electrical | Mechanical | Other engineering | Total | Physics & astronomy | Chemistry | Other physical sciences |
| New York, continued: | | | | | | | | | | | | |
| Pace University New York Campus | 333 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Polytechnic University | 174 | 34 | 25 | 6 | 6 | 10 | 2 | 1 | 2 | 0 | 2 | 0 |
| Rensselaer Polytechnic Institute | 97 | 83 | 57 | 5 | 4 | 13 | 15 | 20 | 14 | 7 | 7 | 0 |
| Rockefeller University | 228 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| St John's U (Jamaica, NY) | 184 | 29 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 |
| SUNY at Albany | 83 | 105 | 1 | 0 | 0 | 0 | 0 | 1 | 16 | 15 | 1 | 0 |
| SUNY at Binghamton | 127 | 55 | 4 | 0 | 0 | 2 | 0 | 2 | 5 | 0 | 5 | 0 |
| SUNY at Buffalo | 47 | 171 | 35 | 3 | 4 | 10 | 13 | 5 | 24 | 8 | 16 | 0 |
| SUNY at Stony Brook | 43 | 183 | 21 | 0 | 0 | 8 | 7 | 6 | 42 | 19 | 23 | 0 |
| SUNY Col Environ Sci & Forestry | 236 | 17 | 1 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 3 | 0 |
| SUNY Health Sci Ctr Brooklyn | 257 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUNY Health Sci Ctr Syracuse | 257 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Syracuse University | 91 | 91 | 13 | 0 | 1 | 6 | 4 | 2 | 13 | 6 | 7 | 0 |
| Teachers College Columbia U | 340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Union College | 320 | 2 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Union Theological Seminary | 340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| University of Rochester | 63 | 138 | 20 | 3 | 0 | 10 | 5 | 2 | 40 | 27 | 13 | 0 |
| Yeshiva University | 135 | 52 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 |
| North Carolina, total | 10 | 715 | 128 | 8 | 12 | 32 | 19 | 57 | 85 | 28 | 55 | 2 |
| Duke University | 47 | 171 | 34 | 0 | 3 | 8 | 8 | 15 | 19 | 8 | 11 | 0 |
| East Carolina University | 280 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Carolina A&T State U | 333 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Carolina State U Raleigh | 25 | 262 | 79 | 8 | 5 | 23 | 9 | 34 | 27 | 10 | 15 | 2 |
| U of North Carolina Chapel Hill | 30 | 224 | 11 | 0 | 4 | 0 | 0 | 7 | 29 | 6 | 23 | 0 |
| U of North Carolina Charlotte | 320 | 2 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| U of North Carolina Greensboro | 222 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wake Forest University | 190 | 28 | 1 | 0 | 0 | 0 | 0 | 1 | 10 | 4 | 6 | 0 |
| North Dakota, total | 48 | 41 | 2 | 0 | 0 | 1 | 0 | 1 | 10 | 4 | 6 | 0 |
| North Dakota State University | 228 | 19 | 2 | 0 | 0 | 1 | 0 | 1 | 4 | 1 | 3 | 0 |
| University of North Dakota | 210 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 3 | 3 | 0 |
| Ohio, total | 7 | 1,057 | 265 | 47 | 10 | 64 | 37 | 107 | 167 | 65 | 100 | 2 |
| Air Force Institute Technology | 267 | 10 | 7 | 0 | 0 | 2 | 1 | 4 | 1 | 1 | 0 | 0 |
| Bowling Green State University | 143 | 46 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 2 | 1 |
| Case Western Reserve University | 63 | 138 | 46 | 14 | 0 | 9 | 2 | 21 | 16 | 6 | 10 | 0 |
| Cleveland State University | 228 | 19 | 9 | 0 | 2 | 1 | 1 | 5 | 5 | 0 | 5 | 0 |
| Hebrew Union Col-Jewish Inst Rel | 340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kent State University Geauga | 114 | 66 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 9 | 2 | 0 |
| Medical College of Ohio | 210 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Miami University Oxford Campus | 184 | 29 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 8 | 0 |
| Ohio State University | 11 | 367 | 79 | 7 | 3 | 18 | 17 | 34 | 46 | 21 | 24 | 1 |
| Ohio University | 146 | 45 | 14 | 4 | 1 | 7 | 1 | 1 | 7 | 5 | 2 | 0 |
| University of Akron | 91 | 91 | 30 | 17 | 1 | 3 | 5 | 4 | 34 | 8 | 26 | 0 |
| University of Cincinnati | 62 | 139 | 50 | 2 | 3 | 13 | 3 | 29 | 23 | 7 | 16 | 0 |
| University of Dayton | 207 | 23 | 19 | 0 | 0 | 9 | 5 | 5 | 4 | 4 | 0 | 0 |
| University of Toledo | 158 | 40 | 9 | 3 | 0 | 1 | 2 | 3 | 8 | 3 | 5 | 0 |
| Wright State University | 210 | 22 | 2 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| Youngstown State University | 340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Oklahoma, total | 31 | 236 | 33 | 13 | 3 | 5 | 6 | 6 | 26 | 11 | 15 | 0 |
| Oklahoma State University | 76 | 110 | 14 | 4 | 2 | 3 | 5 | 0 | 12 | 4 | 8 | 0 |
| University of Oklahoma Norman | 84 | 104 | 13 | 3 | 1 | 2 | 1 | 6 | 14 | 7 | 7 | 0 |
| University of Tulsa | 210 | 22 | 6 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Oregon, total | 29 | 257 | 29 | 0 | 5 | 16 | 2 | 6 | 36 | 17 | 19 | 0 |
| Oregon Grad Inst Science & Tech | 236 | 17 | 14 | 0 | 2 | 10 | 0 | 2 | 1 | 0 | 1 | 0 |
| Oregon Health Sciences U | 179 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Oregon State University | 73 | 120 | 12 | 0 | 3 | 4 | 2 | 3 | 16 | 7 | 9 | 0 |
| Portland State University | 228 | 19 | 3 | 0 | 0 | 2 | 0 | 1 | 2 | 1 | 1 | 0 |
| University of Oregon | 110 | 71 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 9 | 8 | 0 |

See explanatory information, if any, and SOURCE at end of table

## Table 6. Institutions conferring science and engineering (S&E) doctorates, by State, institution, and major field: 2000

[To increase readability, fields span two pages and institutions are repeated on facing pages.]



| State and institution | Earth, atmos., & ocean sciences | Mathematics | Computer sciences | Biological & agricultural sciences | | | Psychology | Social sciences | Non-S&E, total | Grand total, all fields |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Total | Biological | Agricultural | | | | |
| New York, continued: | | | | | | | | | | |
| Pace University New York Campus | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 4 | 5 |
| Polytechnic University | 0 | 2 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 34 |
| Rensselaer Polytechnic Institute | 2 | 1 | 1 | 3 | 3 | 0 | 1 | 4 | 9 | 92 |
| Rockefeller University | 0 | 0 | 0 | 18 | 18 | 0 | 0 | 0 | 0 | 19 |
| St John's U (Jamaica, NY) | 0 | 0 | 0 | 7 | 7 | 0 | 19 | 1 | 21 | 50 |
| SUNY at Albany | 8 | 2 | 9 | 9 | 9 | 0 | 31 | 29 | 54 | 159 |
| SUNY at Binghamton | 2 | 4 | 4 | 5 | 5 | 0 | 9 | 22 | 45 | 100 |
| SUNY at Buffalo | 0 | 3 | 5 | 50 | 50 | 0 | 23 | 31 | 131 | 302 |
| SUNY at Stony Brook | 10 | 12 | 2 | 49 | 49 | 0 | 22 | 25 | 58 | 241 |
| SUNY Col Environ Sci & Forestry | 3 | 0 | 0 | 10 | 3 | 7 | 0 | 0 | 0 | 17 |
| SUNY Health Sci Ctr Brooklyn | 0 | 0 | 0 | 12 | 12 | 0 | 0 | 0 | 1 | 13 |
| SUNY Health Sci Ctr Syracuse | 0 | 0 | 0 | 12 | 12 | 0 | 0 | 0 | 0 | 12 |
| Syracuse University | 1 | 1 | 13 | 1 | 1 | 0 | 11 | 38 | 51 | 142 |
| Teachers College Columbia U | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 124 | 124 |
| Union College | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 |
| Union Theological Seminary | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 10 |
| University of Rochester | 3 | 5 | 5 | 38 | 37 | 1 | 4 | 23 | 73 | 211 |
| Yeshiva University | 0 | 0 | 0 | 39 | 39 | 0 | 11 | 0 | 8 | 60 |
| North Carolina, total | 24 | 34 | 15 | 250 | 217 | 33 | 52 | 127 | 384 | 1,099 |
| Duke University | 1 | 7 | 3 | 60 | 59 | 1 | 9 | 38 | 59 | 230 |
| East Carolina University | 0 | 0 | 0 | 7 | 7 | 0 | 0 | 0 | 3 | 10 |
| North Carolina A&T State U | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| North Carolina State U Raleigh | 9 | 19 | 3 | 90 | 58 | 32 | 7 | 28 | 52 | 314 |
| U of North Carolina Chapel Hill | 14 | 8 | 9 | 72 | 72 | 0 | 21 | 60 | 200 | 424 |
| U of North Carolina Charlotte | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 4 |
| U of North Carolina Greensboro | 0 | 0 | 0 | 4 | 4 | 0 | 15 | 1 | 68 | 88 |
| Wake Forest University | 0 | 0 | 0 | 17 | 17 | 0 | 0 | 0 | 0 | 28 |
| North Dakota, total | 0 | 3 | 0 | 14 | 8 | 6 | 12 | 0 | 17 | 58 |
| North Dakota State University | 0 | 3 | 0 | 10 | 4 | 6 | 0 | 0 | 0 | 19 |
| University of North Dakota | 0 | 0 | 0 | 4 | 4 | 0 | 12 | 0 | 17 | 39 |
| Ohio, total | 17 | 30 | 18 | 267 | 248 | 19 | 174 | 119 | 738 | 1,795 |
| Air Force Institute Technology | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| Bowling Green State University | 0 | 5 | 0 | 3 | 3 | 0 | 22 | 12 | 47 | 93 |
| Case Western Reserve University | 1 | 1 | 2 | 55 | 54 | 1 | 8 | 9 | 55 | 193 |
| Cleveland State University | 0 | 0 | 1 | 4 | 4 | 0 | 0 | 0 | 20 | 39 |
| Hebrew Union Col-Jewish Inst Rel | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 5 |
| Kent State University Geauga | 3 | 2 | 1 | 12 | 12 | 0 | 29 | 8 | 65 | 131 |
| Medical College of Ohio | 0 | 0 | 0 | 22 | 22 | 0 | 0 | 0 | 2 | 24 |
| Miami University Oxford Campus | 0 | 0 | 0 | 11 | 11 | 0 | 7 | 3 | 21 | 50 |
| Ohio State University | 12 | 15 | 10 | 100 | 82 | 18 | 39 | 66 | 242 | 609 |
| Ohio University | 0 | 2 | 0 | 5 | 5 | 0 | 16 | 1 | 75 | 120 |
| University of Akron | 0 | 0 | 0 | 3 | 3 | 0 | 17 | 7 | 23 | 114 |
| University of Cincinnati | 1 | 1 | 2 | 39 | 39 | 0 | 10 | 13 | 101 | 240 |
| University of Dayton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 31 |
| University of Toledo | 0 | 3 | 1 | 9 | 9 | 0 | 10 | 0 | 68 | 108 |
| Wright State University | 0 | 0 | 0 | 4 | 4 | 0 | 16 | 0 | 0 | 22 |
| Youngstown State University | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 |
| Oklahoma, total | 24 | 6 | 7 | 56 | 42 | 14 | 50 | 34 | 146 | 382 |
| Oklahoma State University | 10 | 2 | 2 | 33 | 19 | 14 | 20 | 17 | 76 | 186 |
| University of Oklahoma Norman | 12 | 4 | 4 | 23 | 23 | 0 | 17 | 17 | 66 | 170 |
| University of Tulsa | 2 | 0 | 1 | 0 | 0 | 0 | 13 | 0 | 4 | 26 |
| Oregon, total | 22 | 17 | 4 | 104 | 75 | 29 | 17 | 28 | 125 | 382 |
| Oregon Grad Inst Science & Tech | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 17 |
| Oregon Health Sciences U | 0 | 0 | 0 | 30 | 30 | 0 | 0 | 0 | 7 | 37 |
| Oregon State University | 15 | 10 | 1 | 57 | 28 | 29 | 3 | 6 | 39 | 159 |
| Portland State University | 1 | 1 | 0 | 3 | 3 | 0 | 3 | 6 | 12 | 31 |
| University of Oregon | 6 | 6 | 2 | 13 | 13 | 0 | 11 | 16 | 67 | 138 |

See explanatory information, if any, and SOURCE at end of table.

## Table 6. Institutions conferring science and engineering (S&E) doctorates, by State, institution, and major field: 2000

[To increase readability, fields span two pages and institutions are repeated on facing pages.]



| State and institution | S&E rank* | Total S&E | Engineering | | | | | | Physical sciences | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Total | Chemical | Civil | Electrical | Mechanical | Other engineering | Total | Physics & astronomy | Chemistry | Other physical sciences |
| Pennsylvania, total | 6 | 1,240 | 316 | 55 | 29 | 81 | 49 | 102 | 145 | 55 | 88 | 2 |
| Allegheny Univ of the Hlth Sci | 184 | 29 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bryn Mawr College | 257 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Carnegie Mellon University | 63 | 138 | 82 | 16 | 4 | 35 | 6 | 21 | 14 | 3 | 10 | 1 |
| Drexel University | 194 | 27 | 17 | 1 | 1 | 5 | 3 | 7 | 1 | 0 | 1 | 0 |
| Duquesne University | 184 | 29 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 4 | 0 |
| Indiana University of PA | 222 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lehigh University | 100 | 81 | 43 | 8 | 6 | 11 | 12 | 6 | 10 | 7 | 3 | 0 |
| Pennsylvania State U | 14 | 341 | 110 | 8 | 14 | 19 | 23 | 46 | 32 | 20 | 11 | 1 |
| Philadelphia Col Pharmacy & Sci | 288 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 4 | 0 |
| Temple University | 85 | 102 | 1 | 0 | 0 | 1 | 0 | 0 | 11 | 3 | 8 | 0 |
| Thomas Jefferson University | 240 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 |
| University of Pennsylvania | 22 | 264 | 33 | 11 | 0 | 5 | 3 | 14 | 39 | 11 | 28 | 0 |
| University of Pittsburgh | 45 | 172 | 30 | 11 | 4 | 5 | 2 | 8 | 27 | 11 | 16 | 0 |
| Villanova University | 309 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 |
| Westminster Theological Seminary | 340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Widener U Pennsylvania Campus | 340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rhode Island, total | 36 | 167 | 23 | 3 | 2 | 8 | 7 | 3 | 32 | 14 | 18 | 0 |
| Brown University | 86 | 101 | 11 | 1 | 0 | 4 | 4 | 2 | 19 | 8 | 11 | 0 |
| Providence College | 340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Salve Regina University | 333 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| University of Rhode Island | 115 | 65 | 12 | 2 | 2 | 4 | 3 | 1 | 13 | 6 | 7 | 0 |
| South Carolina, total | 32 | 217 | 44 | 9 | 5 | 11 | 9 | 10 | 22 | 9 | 13 | 0 |
| Clemson University | 95 | 84 | 31 | 1 | 4 | 9 | 7 | 10 | 11 | 4 | 7 | 0 |
| Medical U South Carolina | 207 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 0 |
| South Carolina State University | 340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U of South Carolina at Columbia | 76 | 110 | 13 | 8 | 1 | 2 | 2 | 0 | 8 | 5 | 3 | 0 |
| South Dakota, total | 50 | 32 | 4 | 0 | 1 | 0 | 0 | 3 | 1 | 0 | 1 | 0 |
| South Dakota Sch of Mines & Tech | 297 | 4 | 4 | 0 | 1 | 0 | 0 | 3 | 0 | 0 | 0 | 0 |
| South Dakota State University | 246 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 |
| University of South Dakota | 246 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tennessee, total | 23 | 375 | 64 | 10 | 8 | 17 | 8 | 21 | 50 | 17 | 33 | 0 |
| East Tennessee State University | 309 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Meharry Medical College | 252 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mid-America Baptist Theol Sem | 340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Middle Tennessee State U | 320 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 |
| Tennessee State University | 320 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tennessee Technological U | 297 | 4 | 4 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 |
| University of Memphis | 129 | 54 | 11 | 0 | 0 | 3 | 2 | 6 | 5 | 0 | 5 | 0 |
| University of Tennessee Knoxville | 51 | 164 | 30 | 9 | 4 | 1 | 4 | 12 | 30 | 10 | 20 | 0 |
| University of Tennessee Memphis | 201 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 |
| Vanderbilt University | 79 | 108 | 19 | 0 | 4 | 12 | 0 | 3 | 11 | 7 | 4 | 0 |
| Texas, total | 3 | 1,572 | 397 | 78 | 47 | 118 | 55 | 99 | 186 | 73 | 113 | 0 |
| Baylor College of Medicine | 134 | 53 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Baylor University | 273 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 |
| Dallas Theological Seminary | 340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lamar University | 340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rice University | 87 | 95 | 30 | 9 | 0 | 7 | 8 | 6 | 17 | 6 | 11 | 0 |
| Sam Houston State University | 309 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Southern Methodist University | 176 | 32 | 8 | 0 | 0 | 4 | 1 | 3 | 1 | 1 | 0 | 0 |
| Southwestern Baptist Theol Sem | 297 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| St Mary's University | 320 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Stephen F Austin State U | 320 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

See explanatory information, if any, and SOURCE at end of table.

## Table 6. Institutions conferring science and engineering (S&E) doctorates, by State, institution, and major field: 2000

[To increase readability, fields span two pages and institutions are repeated on facing pages.]



| State and institution | Earth, atmos., & ocean sciences | Mathematics | Computer sciences | Biological & agricultural sciences | | | Psychology | Social sciences | Non-S&E, total | Grand total, all fields |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Total | Biological | Agricultural | | | | |
| Pennsylvania, total | 22 | 57 | 46 | 280 | 265 | 15 | 195 | 179 | 857 | 2,097 |
| Allegheny Univ of the Hlth Sci | 0 | 0 | 0 | 11 | 11 | 0 | 18 | 0 | 0 | 29 |
| Bryn Mawr College | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 3 | 9 | 21 |
| Carnegie Mellon University | 0 | 8 | 14 | 9 | 9 | 0 | 8 | 3 | 20 | 158 |
| Drexel University | 1 | 1 | 1 | 3 | 3 | 0 | 3 | 0 | 8 | 35 |
| Duquesne University | 0 | 1 | 0 | 0 | 0 | 0 | 24 | 0 | 19 | 48 |
| Indiana University of PA | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 9 | 57 | 77 |
| Lehigh University | 3 | 4 | 3 | 6 | 6 | 0 | 10 | 2 | 19 | 100 |
| Pennsylvania State U | 10 | 18 | 5 | 86 | 71 | 15 | 35 | 45 | 200 | 541 |
| Philadelphia Col Pharmacy & Sci | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 1 | 7 |
| Temple University | 0 | 6 | 1 | 26 | 26 | 0 | 40 | 17 | 168 | 270 |
| Thomas Jefferson University | 0 | 0 | 0 | 15 | 15 | 0 | 0 | 0 | 0 | 16 |
| University of Pennsylvania | 4 | 8 | 6 | 84 | 84 | 0 | 19 | 71 | 161 | 425 |
| University of Pittsburgh | 4 | 11 | 16 | 37 | 37 | 0 | 18 | 29 | 145 | 317 |
| Villanova University | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 3 |
| Westminster Theological Seminary | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 9 |
| Widener U Pennsylvania Campus | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 41 | 41 |
| Rhode Island, total | 18 | 15 | 5 | 23 | 22 | 1 | 17 | 34 | 75 | 242 |
| Brown University | 6 | 11 | 4 | 17 | 17 | 0 | 3 | 30 | 48 | 149 |
| Providence College | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Salve Regina University | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | 6 |
| University of Rhode Island | 12 | 4 | 1 | 6 | 5 | 1 | 14 | 3 | 21 | 86 |
| South Carolina, total | 9 | 10 | 4 | 70 | 58 | 12 | 34 | 34 | 184 | 401 |
| Clemson University | 1 | 4 | 0 | 29 | 17 | 12 | 2 | 6 | 25 | 109 |
| Medical U South Carolina | 0 | 0 | 0 | 20 | 20 | 0 | 0 | 0 | 4 | 27 |
| South Carolina State University | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22 | 22 |
| U of South Carolina at Columbia | 8 | 6 | 4 | 21 | 21 | 0 | 22 | 28 | 133 | 243 |
| South Dakota, total | 1 | 0 | 0 | 12 | 10 | 2 | 8 | 6 | 47 | 79 |
| South Dakota Sch of Mines & Tech | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| South Dakota State University | 1 | 0 | 0 | 6 | 4 | 2 | 0 | 6 | 0 | 14 |
| University of South Dakota | 0 | 0 | 0 | 6 | 6 | 0 | 8 | 0 | 47 | 61 |
| Tennessee, total | 4 | 16 | 9 | 119 | 112 | 7 | 73 | 40 | 306 | 681 |
| East Tennessee State University | 0 | 0 | 0 | 3 | 3 | 0 | 0 | 0 | 25 | 28 |
| Meharry Medical College | 0 | 0 | 0 | 13 | 13 | 0 | 0 | 0 | 0 | 13 |
| Mid-America Baptist Theol Sem | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 |
| Middle Tennessee State U | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 7 |
| Tennessee State University | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 29 | 31 |
| Tennessee Technological U | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| University of Memphis | 1 | 4 | 3 | 3 | 3 | 0 | 27 | 0 | 55 | 109 |
| University of Tennessee Knoxville | 2 | 7 | 3 | 36 | 29 | 7 | 30 | 26 | 102 | 266 |
| University of Tennessee Memphis | 1 | 0 | 0 | 22 | 22 | 0 | 0 | 0 | 4 | 29 |
| Vanderbilt University | 0 | 5 | 3 | 42 | 42 | 0 | 14 | 14 | 82 | 190 |
| Texas, total | 56 | 56 | 64 | 440 | 387 | 53 | 190 | 183 | 960 | 2,532 |
| Baylor College of Medicine | 0 | 0 | 0 | 53 | 53 | 0 | 0 | 0 | 1 | 54 |
| Baylor University | 1 | 2 | 0 | 3 | 3 | 0 | 0 | 1 | 37 | 46 |
| Dallas Theological Seminary | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 11 |
| Lamar University | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Rice University | 5 | 11 | 6 | 12 | 12 | 0 | 5 | 9 | 16 | 111 |
| Sam Houston State University | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 |
| Southern Methodist University | 2 | 3 | 5 | 0 | 0 | 0 | 5 | 8 | 5 | 37 |
| Southwestern Baptist Theol Sem | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 50 | 54 |
| St Mary's University | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 3 |
| Stephen F Austin State U | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 2 |

See explanatory information, if any, and SOURCE at end of table.

## Table 6. Institutions conferring science and engineering (S&E) doctorates, by State, institution, and major field: 2000

[To increase readability, fields span two pages and institutions are repeated on facing pages.]



| State and institution | S&E rank* | Total S&E | Engineering | | | | | | Physical sciences | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Total | Chemical | Civil | Electrical | Mechanical | Other engineering | Total | Physics & astronomy | Chemistry | Other physical sciences |
| Texas, continued. | | | | | | | | | | | | |
| Texas A&M University | 9 | 385 | 135 | 34 | 20 | 26 | 21 | 34 | 38 | 10 | 28 | 0 |
| Texas A&M University Commerce | 297 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Texas A&M University Kingsville | 340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Texas Christian University | 277 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 0 |
| Texas Southern University | 340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Texas Tech University | 104 | 78 | 18 | 4 | 1 | 4 | 3 | 6 | 4 | 1 | 3 | 0 |
| Texas Woman's University | 201 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| University of Dallas | 297 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| University of Houston | 80 | 107 | 31 | 7 | 3 | 8 | 2 | 11 | 25 | 6 | 19 | 0 |
| U North TX | 112 | 70 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 6 | 5 | 0 |
| U North TX Hlth Sci Ctr Ft Worth | 297 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U Texas at Arlington | 129 | 54 | 25 | 0 | 1 | 11 | 3 | 10 | 10 | 2 | 8 | 0 |
| U Texas at Austin | 8 | 391 | 131 | 24 | 20 | 48 | 17 | 22 | 60 | 29 | 31 | 0 |
| U Texas at Dallas | 126 | 56 | 9 | 0 | 0 | 9 | 0 | 0 | 12 | 7 | 5 | 0 |
| U Texas at El Paso | 244 | 15 | 9 | 0 | 2 | 1 | 0 | 6 | 0 | 0 | 0 | 0 |
| U Texas Hlth Sci Ctr | 115 | 65 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 |
| U Texas Hlth Sci Ctr San Antonio | 217 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 0 | 0 |
| U Texas Med Branch Galveston | 179 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U Texas SW Med Ctr Dallas | 127 | 55 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Utah, total | 28 | 272 | 59 | 15 | 8 | 6 | 3 | 27 | 40 | 9 | 31 | 0 |
| Brigham Young University | 124 | 57 | 8 | 6 | 1 | 1 | 0 | 0 | 8 | 2 | 6 | 0 |
| University of Utah | 55 | 156 | 43 | 9 | 3 | 3 | 3 | 25 | 28 | 6 | 22 | 0 |
| Utah State University | 121 | 59 | 8 | 0 | 4 | 2 | 0 | 2 | 4 | 1 | 3 | 0 |
| Vermont, total | 49 | 39 | 3 | 0 | 2 | 0 | 1 | 0 | 6 | 0 | 6 | 0 |
| Middlebury College | 340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| University of Vermont | 161 | 39 | 3 | 0 | 2 | 0 | 1 | 0 | 6 | 0 | 6 | 0 |
| Virginia, total | 12 | 666 | 164 | 19 | 15 | 43 | 22 | 65 | 58 | 29 | 39 | 0 |
| College of William and Mary | 171 | 35 | 2 | 0 | 0 | 0 | 0 | 2 | 10 | 9 | 1 | 0 |
| George Mason University | 95 | 84 | 9 | 0 | 0 | 5 | 0 | 4 | 1 | 1 | 0 | 0 |
| Hampton University | 291 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 5 | 0 | 0 |
| Old Dominion University | 151 | 43 | 14 | 0 | 0 | 3 | 4 | 7 | 4 | 4 | 0 | 0 |
| Regent University | 340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Union Theol Seminary (PSCE) | 340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| University of Virginia | 39 | 199 | 51 | 11 | 3 | 13 | 3 | 21 | 21 | 8 | 13 | 0 |
| Virginia Commonwealth University | 94 | 86 | 2 | 0 | 0 | 0 | 0 | 2 | 10 | 0 | 10 | 0 |
| Virginia Polytechnic Inst & St U | 33 | 214 | 86 | 8 | 12 | 22 | 15 | 29 | 17 | 2 | 15 | 0 |

See explanatory information, if any, and SOURCE at end of table.

## Table 6. Institutions conferring science and engineering (S&E) doctorates, by State, institution, and major field: 2000

[To increase readability, fields span two pages and institutions are repeated on facing pages.]



| State and institution | Earth, atmos., & ocean sciences | Mathematics | Computer sciences | Biological & agricultural sciences | | | Psychology | Social sciences | Non-S&E, total | Grand total, all fields |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Total | Biological | Agricultural | | | | |
| Texas, continued: | | | | | | | | | | |
| Texas A&M University | 18 | 15 | 14 | 110 | 72 | 38 | 21 | 34 | 122 | 507 |
| Texas A&M University Commerce | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 41 | 45 |
| Texas A&M University Kingsville | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 14 |
| Texas Christian University | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 12 | 20 |
| Texas Southern University | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 20 |
| Texas Tech University | 2 | 0 | 1 | 24 | 13 | 11 | 21 | 8 | 63 | 141 |
| Texas Woman's University | 0 | 0 | 0 | 7 | 6 | 1 | 13 | 5 | 67 | 92 |
| University of Dallas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 5 |
| University of Houston | 0 | 2 | 1 | 13 | 13 | 0 | 20 | 15 | 68 | 175 |
| U North TX | 1 | 5 | 15 | 6 | 6 | 0 | 22 | 10 | 90 | 160 |
| U North TX Hlth Sci Ctr Ft Worth | 0 | 0 | 0 | 4 | 4 | 0 | 0 | 0 | 2 | 6 |
| U Texas at Arlington | 0 | 4 | 3 | 3 | 3 | 0 | 0 | 9 | 24 | 78 |
| U Texas at Austin | 20 | 11 | 16 | 39 | 38 | 1 | 45 | 69 | 265 | 656 |
| U Texas at Dallas | 3 | 2 | 2 | 9 | 9 | 0 | 12 | 7 | 15 | 71 |
| U Texas at El Paso | 3 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 5 | 20 |
| U Texas Hlth Sci Ctr | 1 | 1 | 0 | 59 | 59 | 0 | 1 | 1 | 22 | 87 |
| U Texas Hlth Sci Ctr San Antonio | 0 | 0 | 0 | 18 | 18 | 0 | 0 | 0 | 3 | 24 |
| U Texas Med Branch Galveston | 0 | 0 | 0 | 30 | 30 | 0 | 0 | 0 | 4 | 34 |
| U Texas SW Med Ctr Dallas | 0 | 0 | 0 | 48 | 48 | 0 | 7 | 0 | 0 | 55 |
| Utah, total | 3 | 10 | 8 | 76 | 66 | 10 | 46 | 30 | 76 | 348 |
| Brigham Young University | 0 | 2 | 2 | 4 | 4 | 0 | 24 | 9 | 14 | 71 |
| University of Utah | 2 | 7 | 6 | 41 | 41 | 0 | 12 | 17 | 50 | 206 |
| Utah State University | 1 | 1 | 0 | 31 | 21 | 10 | 10 | 4 | 12 | 71 |
| Vermont, total | 0 | 2 | 0 | 16 | 16 | 0 | 12 | 0 | 26 | 65 |
| Middlebury College | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 7 |
| University of Vermont | 0 | 2 | 0 | 16 | 16 | 0 | 12 | 0 | 19 | 58 |
| Virginia, total | 28 | 27 | 41 | 144 | 122 | 22 | 86 | 108 | 371 | 1,037 |
| College of William and Mary | 9 | 0 | 7 | 4 | 3 | 1 | 0 | 3 | 24 | 59 |
| George Mason University | 3 | 2 | 23 | 4 | 4 | 0 | 17 | 25 | 49 | 133 |
| Hampton University | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| Old Dominion University | 7 | 1 | 3 | 8 | 8 | 0 | 2 | 4 | 19 | 62 |
| Regent University | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 7 |
| Union Theol Seminary (PSCE) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 10 |
| University of Virginia | 5 | 10 | 6 | 44 | 44 | 0 | 25 | 37 | 142 | 341 |
| Virginia Commonwealth University | 0 | 0 | 0 | 37 | 37 | 0 | 22 | 15 | 26 | 112 |
| Virginia Polytechnic Inst & St U | 4 | 14 | 2 | 47 | 26 | 21 | 20 | 24 | 94 | 308 |

See explanatory information, if any, and SOURCE at end of table.

## Table 6. Institutions conferring science and engineering (S&E) doctorates, by State, institution, and major field: 2000

[To increase readability, fields span two pages and institutions are repeated on facing pages.]



| State and institution | S&E rank* | Total S&E | Engineering | | | | | | Physical sciences | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Total | Chemical | Civil | Electrical | Mechanical | Other engineering | Total | Physics & astronomy | Chemistry | Other physical sciences |
| Washington, total | 21 | 406 | 83 | 5 | 9 | 25 | 9 | 35 | 57 | 20 | 37 | 0 |
| Gonzaga University | 320 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Seattle Pacific University | 340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Seattle University | 340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| University of Washington Seattle | 15 | 323 | 68 | 5 | 5 | 22 | 7 | 29 | 50 | 16 | 34 | 0 |
| Washington State University | 100 | 81 | 15 | 0 | 4 | 3 | 2 | 6 | 7 | 4 | 3 | 0 |
| West Virginia, total | 40 | 94 | 19 | 3 | 2 | 3 | 5 | 5 | 14 | 7 | 7 | 0 |
| Marshall University | 320 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| West Virginia University | 89 | 92 | 19 | 3 | 2 | 3 | 5 | 5 | 14 | 7 | 7 | 0 |
| Wisconsin, total | 16 | 566 | 117 | 17 | 6 | 30 | 25 | 39 | 79 | 32 | 46 | 1 |
| Marquette University | 222 | 20 | 7 | 0 | 1 | 3 | 0 | 3 | 4 | 0 | 4 | 0 |
| Medical College of Wisconsin | 267 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U of Wisconsin Madison | 2 | 495 | 104 | 17 | 5 | 23 | 24 | 35 | 64 | 27 | 36 | 1 |
| U of Wisconsin Milwaukee | 156 | 41 | 6 | 0 | 0 | 4 | 1 | 1 | 11 | 5 | 6 | 0 |
| Wyoming, total | 46 | 54 | 4 | 1 | 0 | 1 | 2 | 0 | 12 | 2 | 10 | 0 |
| University of Wyoming | 129 | 54 | 4 | 1 | 0 | 1 | 2 | 0 | 12 | 2 | 10 | 0 |
| Puerto Rico, total | 41 | 84 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 7 | 0 |
| Carlos Albizu University | 151 | 43 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Inter American U PR Metropolitan | 340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U of PR Mayaguez Campus | 297 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U of PR Medical Science Campus | 277 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U of PR Rio Piedras | 184 | 29 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 7 | 0 |

See explanatory information, if any, and SOURCE at end of table.

## Table 6. Institutions conferring science and engineering (S&E) doctorates, by State, institution, and major field: 2000

[To increase readability, fields span two pages and institutions are repeated on facing pages.]



| State and institution | Earth, atmos., & ocean sciences | Mathematics | Computer sciences | Biological & agricultural sciences | | | Psychology | Social sciences | Non-S&E, total | Grand total, all fields |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Total | Biological | Agricultural | | | | |
| Washington, total | 26 | 15 | 10 | 131 | 114 | 17 | 18 | 66 | 228 | 634 |
| Gonzaga University | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 9 | 11 |
| Seattle Pacific University | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 8 |
| Seattle University | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 11 |
| University of Washington Seattle | 24 | 11 | 9 | 97 | 86 | 11 | 13 | 51 | 163 | 486 |
| Washington State University | 2 | 4 | 1 | 34 | 28 | 6 | 4 | 14 | 37 | 118 |
| West Virginia, total | 2 | 1 | 3 | 24 | 13 | 11 | 22 | 9 | 40 | 134 |
| Marshall University | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 2 |
| West Virginia University | 2 | 1 | 3 | 22 | 11 | 11 | 22 | 9 | 40 | 132 |
| Wisconsin, total | 13 | 20 | 17 | 210 | 163 | 47 | 37 | 73 | 303 | 869 |
| Marquette University | 0 | 1 | 0 | 4 | 4 | 0 | 4 | 0 | 34 | 54 |
| Medical College of Wisconsin | 0 | 0 | 0 | 10 | 10 | 0 | 0 | 0 | 0 | 10 |
| U of Wisconsin Madison | 13 | 16 | 15 | 190 | 143 | 47 | 27 | 66 | 233 | 728 |
| U of Wisconsin Milwaukee | 0 | 3 | 2 | 6 | 6 | 0 | 6 | 7 | 36 | 77 |
| Wyoming, total | 5 | 2 | 0 | 20 | 13 | 7 | 6 | 5 | 18 | 72 |
| University of Wyoming | 5 | 2 | 0 | 20 | 13 | 7 | 6 | 5 | 18 | 72 |
| Puerto Rico, total | 4 | 0 | 0 | 12 | 12 | 0 | 60 | 1 | 46 | 130 |
| Carlos Albizu University | 0 | 0 | 0 | 0 | 0 | 0 | 43 | 0 | 0 | 43 |
| Inter American U PR Metropolitan | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 23 |
| U of PR Mayaguez Campus | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| U of PR Medical Science Campus | 0 | 0 | 0 | 8 | 8 | 0 | 0 | 0 | 0 | 8 |
| U of PR Rio Piedras | 0 | 0 | 0 | 4 | 4 | 0 | 17 | 1 | 23 | 52 |

**KEY:** - = Not applicable
* = States are ranked 1 to 51 and institutions are ranked 1 to 340.

**SOURCE:** National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates

## Table 7. Postgraduation plans of science and engineering (S&E) doctorate recipients, by citizenship status and major field: 2000



| Field of study | Total | Definite plans | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Total with definite plans | In the United States | | | | | Abroad | Location unknown |
| | | | Total in U.S. | Postdoc study | Academic employment | Industry employment | Other | | |
| | All recipients | | | | | | | | |
| Science and engineering, total | 25,979 | 16,861 | 15,185 | 6,386 | 3,191 | 3,768 | 1,840 | 1,613 | 63 |
| Engineering, total | 5,330 | 3,342 | 2,953 | 630 | 340 | 1,685 | 298 | 376 | 13 |
| Aeronautical/astronautical | 215 | 131 | 119 | 33 | 9 | 50 | 27 | 12 | 0 |
| Chemical | 726 | 483 | 412 | 108 | 26 | 259 | 19 | 70 | 1 |
| Civil | 558 | 319 | 263 | 70 | 57 | 101 | 35 | 54 | 2 |
| Electrical | 1,544 | 1,003 | 915 | 101 | 94 | 638 | 82 | 84 | 4 |
| Industrial | 176 | 119 | 97 | 9 | 29 | 49 | 10 | 22 | 0 |
| Materials/metallurgical | 451 | 282 | 250 | 73 | 18 | 137 | 22 | 31 | 1 |
| Mechanical | 864 | 516 | 471 | 94 | 52 | 280 | 45 | 43 | 2 |
| Other engineering | 796 | 489 | 426 | 142 | 55 | 171 | 58 | 60 | 3 |
| Sciences, total | 20,649 | 13,519 | 12,232 | 5,756 | 2,851 | 2,083 | 1,542 | 1,237 | 50 |
| Physical sciences, total | 3,411 | 2,288 | 2,082 | 1,166 | 167 | 635 | 114 | 194 | 12 |
| Astronomy | 187 | 136 | 118 | 85 | 9 | 15 | 9 | 18 | 0 |
| Chemistry | 1,990 | 1,368 | 1,270 | 714 | 103 | 399 | 54 | 92 | 6 |
| Physics | 1,205 | 766 | 677 | 361 | 52 | 215 | 49 | 83 | 6 |
| Other physical sciences | 29 | 18 | 17 | 6 | 3 | 6 | 2 | 1 | 0 |
| Earth, atmospheric, and ocean sciences | 757 | 480 | 419 | 215 | 77 | 70 | 57 | 58 | 3 |
| Mathematics | 1,048 | 729 | 653 | 213 | 263 | 137 | 40 | 74 | 2 |
| Computer sciences | 861 | 597 | 541 | 47 | 179 | 274 | 41 | 49 | 7 |
| Biological sciences | 5,855 | 4,007 | 3,758 | 2,902 | 344 | 297 | 215 | 237 | 12 |
| Agricultural sciences | 943 | 569 | 423 | 159 | 108 | 106 | 50 | 142 | 4 |
| Psychology | 3,623 | 2,229 | 2,170 | 786 | 501 | 309 | 574 | 53 | 6 |
| Social sciences | 4,151 | 2,620 | 2,186 | 268 | 1,212 | 255 | 451 | 430 | 4 |
| Non-S&E, total | 15,389 | 9,850 | 9,010 | 592 | 5,149 | 699 | 2,570 | 810 | 30 |
| Grand total, all fields | 41,368 | 26,711 | 24,195 | 6,978 | 8,340 | 4,467 | 4,410 | 2,423 | 93 |

See explanatory information, if any, and SOURCE at end of table.

## Table 7. Postgraduation plans of science and engineering (S&E) doctorate recipients, by citizenship status and major field: 2000



| Field of study | Total | Definite plans | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Total with definite plans | In the United States | | | | | Abroad | Location unknown |
| | | | Total in U.S. | Postdoc study | Academic employment | Industry employment | Other | | |
| | U.S. citizens | | | | | | | | |
| Science and engineering, total | 15,655 | 11,049 | 10,679 | 4,283 | 2,605 | 2,168 | 1,623 | 341 | 29 |
| Engineering, total | 2,206 | 1,592 | 1,552 | 292 | 235 | 765 | 260 | 37 | 3 |
| Aeronautical/astronautical | 117 | 80 | 80 | 16 | 6 | 33 | 25 | 0 | 0 |
| Chemical | 338 | 249 | 243 | 50 | 21 | 157 | 15 | 6 | 0 |
| Civil | 219 | 144 | 141 | 25 | 45 | 46 | 25 | 3 | 0 |
| Electrical | 527 | 395 | 385 | 39 | 53 | 220 | 73 | 9 | 1 |
| Industrial | 67 | 49 | 47 | 5 | 19 | 15 | 8 | 2 | 0 |
| Materials/metallurgical | 221 | 155 | 147 | 38 | 14 | 73 | 22 | 8 | 0 |
| Mechanical | 339 | 239 | 234 | 37 | 36 | 122 | 39 | 5 | 0 |
| Other engineering | 378 | 281 | 275 | 82 | 41 | 99 | 53 | 4 | 2 |
| Sciences, total | 13,449 | 9,457 | 9,127 | 3,991 | 2,370 | 1,403 | 1,363 | 304 | 26 |
| Physical sciences, total | 1,885 | 1,394 | 1,316 | 687 | 145 | 402 | 82 | 73 | 5 |
| Astronomy | 128 | 101 | 87 | 60 | 9 | 11 | 7 | 14 | 0 |
| Chemistry | 1,116 | 853 | 824 | 420 | 95 | 268 | 41 | 26 | 3 |
| Physics | 622 | 426 | 391 | 202 | 38 | 118 | 33 | 33 | 2 |
| Other physical sciences | 19 | 14 | 14 | 5 | 3 | 5 | 1 | 0 | 0 |
| Earth, atmospheric, and ocean sciences | 475 | 337 | 321 | 151 | 69 | 49 | 52 | 15 | 1 |
| Mathematics | 513 | 395 | 386 | 100 | 188 | 67 | 31 | 9 | 0 |
| Computer sciences | 387 | 290 | 280 | 20 | 112 | 113 | 35 | 7 | 3 |
| Biological sciences | 3,895 | 2,842 | 2,741 | 2,022 | 300 | 228 | 191 | 93 | 8 |
| Agricultural sciences | 446 | 293 | 282 | 67 | 97 | 74 | 44 | 10 | 1 |
| Psychology | 3,146 | 2,093 | 2,067 | 741 | 467 | 298 | 561 | 20 | 6 |
| Social sciences | 2,702 | 1,813 | 1,734 | 203 | 992 | 172 | 367 | 77 | 2 |
| Non-S&E, total | 12,233 | 8,365 | 8,192 | 485 | 4,624 | 592 | 2,491 | 151 | 22 |
| Grand total, all fields | 27,888 | 19,414 | 18,871 | 4,768 | 7,229 | 2,760 | 4,114 | 492 | 51 |

See explanatory information, if any, and SOURCE at end of table.

## Table 7. Postgraduation plans of science and engineering (S&E) doctorate recipients, by citizenship status and major field: 2000



| Field of study | Total | Definite plans | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Total with definite plans | In the United States | | | | | Abroad | Location unknown |
| | | | Total in U.S. | Postdoc study | Academic employment | Industry employment | Other | | |
| | Non-U.S. citizens with permanent visas | | | | | | | | |
| Science and engineering, total | 1,409 | 844 | 787 | 309 | 148 | 285 | 45 | 53 | 4 |
| Engineering, total | 350 | 224 | 213 | 36 | 27 | 142 | 8 | 9 | 2 |
| Aeronautical/astronautical | 10 | 7 | 7 | 3 | 0 | 4 | 0 | 0 | 0 |
| Chemical | 42 | 22 | 19 | 3 | 1 | 14 | 1 | 2 | 1 |
| Civil | 41 | 26 | 26 | 3 | 4 | 16 | 3 | 0 | 0 |
| Electrical | 116 | 77 | 74 | 4 | 7 | 61 | 2 | 2 | 1 |
| Industrial | 10 | 9 | 7 | 1 | 3 | 3 | 0 | 2 | 0 |
| Materials/metallurgical | 22 | 15 | 14 | 4 | 2 | 8 | 0 | 1 | 0 |
| Mechanical | 56 | 35 | 35 | 10 | 4 | 21 | 0 | 0 | 0 |
| Other engineering | 53 | 33 | 31 | 8 | 6 | 15 | 2 | 2 | 0 |
| Sciences, total | 1,059 | 620 | 574 | 273 | 121 | 143 | 37 | 44 | 2 |
| Physical sciences, total | 199 | 129 | 123 | 51 | 8 | 54 | 10 | 6 | 0 |
| Astronomy | 12 | 6 | 6 | 4 | 0 | 0 | 2 | 0 | 0 |
| Chemistry | 120 | 80 | 76 | 30 | 2 | 40 | 4 | 4 | 0 |
| Physics | 66 | 42 | 40 | 17 | 6 | 14 | 3 | 2 | 0 |
| Other physical sciences | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 |
| Earth, atmospheric, and ocean sciences | 34 | 20 | 19 | 10 | 1 | 6 | 2 | 1 | 0 |
| Mathematics | 55 | 33 | 33 | 7 | 16 | 10 | 0 | 0 | 0 |
| Computer sciences | 71 | 54 | 49 | 4 | 14 | 31 | 0 | 4 | 1 |
| Biological sciences | 365 | 216 | 208 | 164 | 18 | 17 | 9 | 7 | 1 |
| Agricultural sciences | 55 | 26 | 20 | 8 | 3 | 8 | 1 | 6 | 0 |
| Psychology | 75 | 37 | 32 | 13 | 13 | 3 | 3 | 5 | 0 |
| Social sciences | 205 | 105 | 90 | 16 | 48 | 14 | 12 | 15 | 0 |
| Non-S&E, total | 540 | 292 | 253 | 23 | 164 | 31 | 35 | 37 | 2 |
| Grand total, all fields | 1,949 | 1,136 | 1,040 | 332 | 312 | 316 | 80 | 90 | 6 |

See explanatory information, if any, and SOURCE at end of table.

## Table 7. Postgraduation plans of science and engineering (S&E) doctorate recipients, by citizenship status and major field: 2000



| Field of study | Total | Definite plans | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Total with definite plans | In the United States | | | | | Abroad | Location unknown |
| | | | Total in U.S. | Postdoc study | Academic employment | Industry employment | Other | | |
| | Non-U.S. citizens with temporary visas | | | | | | | | |
| Science and engineering, total | 7,648 | 4,946 | 3,701 | 1,787 | 436 | 1,309 | 169 | 1,219 | 26 |
| Engineering, total | 2,444 | 1,519 | 1,181 | 302 | 77 | 773 | 29 | 330 | 8 |
| Aeronautical/astronautical | 75 | 44 | 32 | 14 | 3 | 13 | 2 | 12 | 0 |
| Chemical | 308 | 210 | 148 | 55 | 4 | 86 | 3 | 62 | 0 |
| Civil | 280 | 148 | 95 | 42 | 8 | 38 | 7 | 51 | 2 |
| Electrical | 777 | 529 | 454 | 58 | 34 | 356 | 6 | 73 | 2 |
| Industrial | 93 | 61 | 43 | 3 | 7 | 31 | 2 | 18 | 0 |
| Materials/metallurgical | 181 | 111 | 88 | 31 | 2 | 55 | 0 | 22 | 1 |
| Mechanical | 431 | 241 | 201 | 47 | 11 | 137 | 6 | 38 | 2 |
| Other engineering | 299 | 175 | 120 | 52 | 8 | 57 | 3 | 54 | 1 |
| Sciences, total | 5,204 | 3,427 | 2,520 | 1,485 | 359 | 536 | 140 | 889 | 18 |
| Physical sciences, total | 1,156 | 760 | 638 | 424 | 14 | 179 | 21 | 115 | 7 |
| Astronomy | 43 | 28 | 24 | 20 | 0 | 4 | 0 | 4 | 0 |
| Chemistry | 648 | 432 | 367 | 262 | 6 | 91 | 8 | 62 | 3 |
| Physics | 457 | 297 | 245 | 141 | 8 | 83 | 13 | 48 | 4 |
| Other physical sciences | 8 | 3 | 2 | 1 | 0 | 1 | 0 | 1 | 0 |
| Earth, atmospheric, and ocean sciences | 202 | 121 | 78 | 53 | 7 | 15 | 3 | 42 | 1 |
| Mathematics | 442 | 299 | 233 | 105 | 59 | 60 | 9 | 65 | 1 |
| Computer sciences | 361 | 250 | 209 | 23 | 52 | 129 | 5 | 38 | 3 |
| Biological sciences | 1,390 | 947 | 808 | 715 | 26 | 52 | 15 | 137 | 2 |
| Agricultural sciences | 416 | 249 | 121 | 84 | 8 | 24 | 5 | 126 | 2 |
| Psychology | 164 | 99 | 71 | 32 | 21 | 8 | 10 | 28 | 0 |
| Social sciences | 1,073 | 702 | 362 | 49 | 172 | 69 | 72 | 338 | 2 |
| Non-S&E, total | 2,000 | 1,190 | 564 | 84 | 360 | 76 | 44 | 621 | 5 |
| Grand total, all fields | 9,648 | 6,136 | 4,265 | 1,871 | 796 | 1,385 | 213 | 1,840 | 31 |

**NOTE:** Details may not add to totals because of persons with unknown citizenship.

**SOURCE:** National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates.

## Table 8. Percentage distribution of definite postgraduation plans of science and engineering (S&E) doctorate recipients, by citizenship status and major field: 2000



| Field of study | Definite plans | In the United States | | | | | Abroad | Location unknown |
|---|---|---|---|---|---|---|---|---|
| | | Total in U.S. | Postdoc study | Academic employment | Industry employment | Other | | |
| | All recipients | | | | | | | |
| Science and engineering, total | 100.0 | 90.1 | 37.9 | 18.9 | 22.3 | 10.9 | 9.6 | 0.4 |
| Engineering, total | 100.0 | 88.4 | 18.9 | 10.2 | 50.4 | 8.9 | 11.3 | .4 |
| Aeronautical/astronautical | 100.0 | 90.8 | 25.2 | 6.9 | 38.2 | 20.6 | 9.2 | 0 |
| Chemical | 100.0 | 85.3 | 22.4 | 5.4 | 53.6 | 3.9 | 14.5 | .2 |
| Civil | 100.0 | 82.4 | 21.9 | 17.9 | 31.7 | 11.0 | 16.9 | .6 |
| Electrical | 100.0 | 91.2 | 10.1 | 9.4 | 63.6 | 8.2 | 8.4 | .4 |
| Industrial | 100.0 | 81.5 | 7.6 | 24.4 | 41.2 | 8.4 | 18.5 | 0 |
| Materials/metallurgical | 100.0 | 88.7 | 25.9 | 6.4 | 48.6 | 7.8 | 11.0 | .4 |
| Mechanical | 100.0 | 91.3 | 18.2 | 10.1 | 54.3 | 8.7 | 8.3 | .4 |
| Other engineering | 100.0 | 87.1 | 29.0 | 11.2 | 35.0 | 11.9 | 12.3 | .6 |
| Sciences, total | 100.0 | 90.5 | 42.6 | 21.1 | 15.4 | 11.4 | 9.2 | .4 |
| Physical sciences, total | 100.0 | 91.0 | 51.0 | 7.3 | 27.8 | 5.0 | 8.5 | .5 |
| Astronomy | 100.0 | 86.8 | 62.5 | 6.6 | 11.0 | 6.6 | 13.2 | 0 |
| Chemistry | 100.0 | 92.8 | 52.2 | 7.5 | 29.2 | 3.9 | 6.7 | .4 |
| Physics | 100.0 | 88.4 | 47.1 | 6.8 | 28.1 | 6.4 | 10.8 | .8 |
| Other physical sciences | 100.0 | 94.4 | 33.3 | 16.7 | 33.3 | 11.1 | 5.6 | 0 |
| Earth, atmospheric, and ocean sciences | 100.0 | 87.3 | 44.8 | 16.0 | 14.6 | 11.9 | 12.1 | .6 |
| Mathematics | 100.0 | 89.6 | 29.2 | 36.1 | 18.8 | 5.5 | 10.2 | .3 |
| Computer sciences | 100.0 | 90.6 | 7.9 | 30.0 | 45.9 | 6.9 | 8.2 | 1.2 |
| Biological sciences | 100.0 | 93.8 | 72.4 | 8.6 | 7.4 | 5.4 | 5.9 | .3 |
| Agricultural sciences | 100.0 | 74.3 | 27.9 | 19.0 | 18.6 | 8.8 | 25.0 | .7 |
| Psychology | 100.0 | 97.4 | 35.3 | 22.5 | 13.9 | 25.8 | 2.4 | .3 |
| Social sciences | 100.0 | 83.4 | 10.2 | 46.3 | 9.7 | 17.2 | 16.4 | .2 |
| Non-S&E, total | 100.0 | 91.5 | 6.0 | 52.3 | 7.1 | 26.1 | 8.2 | .3 |
| Grand total, all fields | 100.0 | 90.6 | 26.1 | 31.2 | 16.7 | 16.5 | 9.1 | .3 |
| | U.S. citizens | | | | | | | |
| Science and engineering, total | 100.0 | 96.7 | 38.8 | 23.6 | 19.6 | 14.7 | 3.1 | 0.3 |
| Engineering, total | 100.0 | 97.5 | 18.3 | 14.8 | 48.1 | 16.3 | 2.3 | .2 |
| Aeronautical/astronautical | 100.0 | 100.0 | 20.0 | 7.5 | 41.2 | 31.3 | 0 | 0 |
| Chemical | 100.0 | 97.6 | 20.1 | 8.4 | 63.1 | 6.0 | 2.4 | 0 |
| Civil | 100.0 | 97.9 | 17.4 | 31.3 | 31.9 | 17.4 | 2.1 | 0 |
| Electrical | 100.0 | 97.5 | 9.9 | 13.4 | 55.7 | 18.5 | 2.3 | .3 |
| Industrial | 100.0 | 95.9 | 10.2 | 38.8 | 30.6 | 16.3 | 4.1 | 0 |
| Materials/metallurgical | 100.0 | 94.8 | 24.5 | 9.0 | 47.1 | 14.2 | 5.2 | 0 |
| Mechanical | 100.0 | 97.9 | 15.5 | 15.1 | 51.0 | 16.3 | 2.1 | 0 |
| Other engineering | 100.0 | 97.9 | 29.2 | 14.6 | 35.2 | 18.9 | 1.4 | .7 |
| Sciences, total | 100.0 | 96.5 | 42.2 | 25.1 | 14.8 | 14.4 | 3.2 | .3 |
| Physical sciences, total | 100.0 | 94.4 | 49.3 | 10.4 | 28.8 | 5.9 | 5.2 | .4 |
| Astronomy | 100.0 | 86.1 | 59.4 | 8.9 | 10.9 | 6.9 | 13.9 | 0 |
| Chemistry | 100.0 | 96.6 | 49.2 | 11.1 | 31.4 | 4.8 | 3.0 | .4 |
| Physics | 100.0 | 91.8 | 47.4 | 8.9 | 27.7 | 7.7 | 7.7 | .5 |
| Other physical sciences | 100.0 | 100.0 | 35.7 | 21.4 | 35.7 | 7.1 | 0 | 0 |
| Earth, atmospheric, and ocean sciences | 100.0 | 95.3 | 44.8 | 20.5 | 14.5 | 15.4 | 4.5 | .3 |
| Mathematics | 100.0 | 97.7 | 25.3 | 47.6 | 17.0 | 7.8 | 2.3 | 0 |
| Computer sciences | 100.0 | 96.6 | 6.9 | 38.6 | 39.0 | 12.1 | 2.4 | 1.0 |
| Biological sciences | 100.0 | 96.4 | 71.1 | 10.6 | 8.0 | 6.7 | 3.3 | .3 |
| Agricultural sciences | 100.0 | 96.2 | 22.9 | 33.1 | 25.3 | 15.0 | 3.4 | .3 |
| Psychology | 100.0 | 98.8 | 35.4 | 22.3 | 14.2 | 26.8 | 1.0 | .3 |
| Social sciences | 100.0 | 95.6 | 11.2 | 54.7 | 9.5 | 20.2 | 4.2 | .1 |
| Non-S&E, total | 100.0 | 97.9 | 5.8 | 55.3 | 7.1 | 29.8 | 1.8 | .3 |
| Grand total, all fields | 100.0 | 97.2 | 24.6 | 37.2 | 14.2 | 21.2 | 2.5 | .3 |

See explanatory information, if any, and SOURCE at end of table.

## Table 8. Percentage distribution of definite postgraduation plans of science and engineering (S&E) doctorate recipients, by citizenship status and major field: 2000



| Field of study | Definite plans | In the United States | | | | | Abroad | Location unknown |
|---|---|---|---|---|---|---|---|---|
| | | Total in U.S. | Postdoc study | Academic employment | Industry employment | Other | | |
| | Non-U.S. citizens with permanent visas | | | | | | | |
| Science and engineering, total | 100.0 | 93.2 | 36.6 | 17.5 | 33.8 | 5.3 | 6.3 | 0.5 |
| Engineering, total | 100.0 | 95.1 | 16.1 | 12.1 | 63.4 | 3.6 | 4.0 | .9 |
| Aeronautical/astronautical | 100.0 | 100.0 | 42.9 | 0 | 57.1 | 0 | 0 | 0 |
| Chemical | 100.0 | 86.4 | 13.6 | 4.5 | 63.6 | 4.5 | 9.1 | 4.5 |
| Civil | 100.0 | 100.0 | 11.5 | 15.4 | 61.5 | 11.5 | 0 | 0 |
| Electrical | 100.0 | 96.1 | 5.2 | 9.1 | 79.2 | 2.6 | 2.6 | 1.3 |
| Industrial | 100.0 | 77.8 | 11.1 | 33.3 | 33.3 | 0 | 22.2 | 0 |
| Materials/metallurgical | 100.0 | 93.3 | 26.7 | 13.3 | 53.3 | 0 | 6.7 | 0 |
| Mechanical | 100.0 | 100.0 | 28.6 | 11.4 | 60.0 | 0 | 0 | 0 |
| Other engineering | 100.0 | 93.9 | 24.2 | 18.2 | 45.5 | 6.1 | 6.1 | 0 |
| Sciences, total | 100.0 | 92.8 | 44.0 | 19.5 | 23.1 | 6.0 | 7.1 | .3 |
| Physical sciences, total | 100.0 | 95.3 | 39.5 | 6.2 | 41.9 | 7.8 | 4.7 | 0 |
| Astronomy | 100.0 | 100.0 | 66.7 | 0 | 0 | 33.3 | 0 | 0 |
| Chemistry | 100.0 | 95.0 | 37.5 | 2.5 | 50.0 | 5.0 | 5.0 | 0 |
| Physics | 100.0 | 95.2 | 40.5 | 14.3 | 33.3 | 7.1 | 4.8 | 0 |
| Other physical sciences | 100.0 | 100.0 | 0 | 0 | 0 | 100.0 | 0 | 0 |
| Earth, atmospheric, and ocean sciences | 100.0 | 95.0 | 50.0 | 5.0 | 30.0 | 10.0 | 5.0 | 0 |
| Mathematics | 100.0 | 100.0 | 21.2 | 48.5 | 30.3 | 0 | 0 | 0 |
| Computer sciences | 100.0 | 90.7 | 7.4 | 25.9 | 57.4 | 0 | 7.4 | 1.9 |
| Biological sciences | 100.0 | 96.3 | 75.9 | 8.3 | 7.9 | 4.2 | 3.2 | .5 |
| Agricultural sciences | 100.0 | 76.9 | 30.8 | 11.5 | 30.8 | 3.8 | 23.1 | 0 |
| Psychology | 100.0 | 86.5 | 35.1 | 35.1 | 8.1 | 8.1 | 13.5 | 0 |
| Social sciences | 100.0 | 85.7 | 15.2 | 45.7 | 13.3 | 11.4 | 14.3 | 0 |
| Non-S&E, total | 100.0 | 86.6 | 7.9 | 56.2 | 10.6 | 12.0 | 12.7 | .7 |
| Grand total, all fields | 100.0 | 91.5 | 29.2 | 27.5 | 27.8 | 7.0 | 7.9 | .5 |
| | Non-U.S. citizens with temporary visas | | | | | | | |
| Science and engineering, total | 100.0 | 74.8 | 36.1 | 8.8 | 26.5 | 3.4 | 24.6 | 0.5 |
| Engineering, total | 100.0 | 77.7 | 19.9 | 5.1 | 50.9 | 1.9 | 21.7 | .5 |
| Aeronautical/astronautical | 100.0 | 72.7 | 31.8 | 6.8 | 29.5 | 4.5 | 27.3 | 0 |
| Chemical | 100.0 | 70.5 | 26.2 | 1.9 | 41.0 | 1.4 | 29.5 | 0 |
| Civil | 100.0 | 64.2 | 28.4 | 5.4 | 25.7 | 4.7 | 34.5 | 1.4 |
| Electrical | 100.0 | 85.8 | 11.0 | 6.4 | 67.3 | 1.1 | 13.8 | .4 |
| Industrial | 100.0 | 70.5 | 4.9 | 11.5 | 50.8 | 3.3 | 29.5 | 0 |
| Materials/metallurgical | 100.0 | 79.3 | 27.9 | 1.8 | 49.5 | 0 | 19.8 | .9 |
| Mechanical | 100.0 | 83.4 | 19.5 | 4.6 | 56.8 | 2.5 | 15.8 | .8 |
| Other engineering | 100.0 | 68.6 | 29.7 | 4.6 | 32.6 | 1.7 | 30.9 | .6 |
| Sciences, total | 100.0 | 73.5 | 43.3 | 10.5 | 15.6 | 4.1 | 25.9 | .5 |
| Physical sciences, total | 100.0 | 83.9 | 55.8 | 1.8 | 23.6 | 2.8 | 15.1 | .9 |
| Astronomy | 100.0 | 85.7 | 71.4 | 0 | 14.3 | 0 | 14.3 | 0 |
| Chemistry | 100.0 | 85.0 | 60.6 | 1.4 | 21.1 | 1.9 | 14.4 | .7 |
| Physics | 100.0 | 82.5 | 47.5 | 2.7 | 27.9 | 4.4 | 16.2 | 1.3 |
| Other physical sciences | 100.0 | 66.7 | 33.3 | 0 | 33.3 | 0 | 33.3 | 0 |
| Earth, atmospheric, and ocean sciences | 100.0 | 64.5 | 43.8 | 5.8 | 12.4 | 2.5 | 34.7 | .8 |
| Mathematics | 100.0 | 77.9 | 35.1 | 19.7 | 20.1 | 3.0 | 21.7 | .3 |
| Computer sciences | 100.0 | 83.6 | 9.2 | 20.8 | 51.6 | 2.0 | 15.2 | 1.2 |
| Biological sciences | 100.0 | 85.3 | 75.5 | 2.7 | 5.5 | 1.6 | 14.5 | .2 |
| Agricultural sciences | 100.0 | 48.6 | 33.7 | 3.2 | 9.6 | 2.0 | 50.6 | .8 |
| Psychology | 100.0 | 71.7 | 32.3 | 21.2 | 8.1 | 10.1 | 28.3 | 0 |
| Social sciences | 100.0 | 51.6 | 7.0 | 24.5 | 9.8 | 10.3 | 48.1 | .3 |
| Non-S&E, total | 100.0 | 47.4 | 7.1 | 30.3 | 6.4 | 3.7 | 52.2 | .4 |
| Grand total, all fields | 100.0 | 69.5 | 30.5 | 13.0 | 22.6 | 3.5 | 30.0 | .5 |

**SOURCE:** National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates

BEST COPY AVAILABLE

## Table 9. Postgraduation plans of science and engineering (S&E) doctorate recipients (U.S. citizens and non-U.S. citizens with permanent visas), by sex and major field: 2000



| Field of study | Total | Definite plans | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Total with definite plans | In the United States | | | | | Abroad | Location unknown |
| | | | Total in U.S. | Postdoc study | Academic employment | Industry employment | Other | | |
| | All recipients | | | | | | | | |
| Science and engineering, total | 17,064 | 11,893 | 11,466 | 4,592 | 2,753 | 2,453 | 1,668 | 394 | 33 |
| Engineering, total | 2,556 | 1,816 | 1,765 | 328 | 262 | 907 | 268 | 46 | 5 |
| Aeronautical/astronautical | 127 | 87 | 87 | 19 | 6 | 37 | 25 | 0 | 0 |
| Chemical | 380 | 271 | 262 | 53 | 22 | 171 | 16 | 8 | 1 |
| Civil | 260 | 170 | 167 | 28 | 49 | 62 | 28 | 3 | 0 |
| Electrical | 643 | 472 | 459 | 43 | 60 | 281 | 75 | 11 | 2 |
| Industrial | 77 | 58 | 54 | 6 | 22 | 18 | 8 | 4 | 0 |
| Materials/metallurgical | 243 | 170 | 161 | 42 | 16 | 81 | 22 | 9 | 0 |
| Mechanical | 395 | 274 | 269 | 47 | 40 | 143 | 39 | 5 | 0 |
| Other engineering | 431 | 314 | 306 | 90 | 47 | 114 | 55 | 6 | 2 |
| Sciences, total | 14,508 | 10,077 | 9,701 | 4,264 | 2,491 | 1,546 | 1,400 | 348 | 28 |
| Physical sciences, total | 2,084 | 1,523 | 1,439 | 738 | 153 | 456 | 92 | 79 | 5 |
| Astronomy | 140 | 107 | 93 | 64 | 9 | 11 | 9 | 14 | 0 |
| Chemistry | 1,236 | 933 | 900 | 450 | 97 | 308 | 45 | 30 | 3 |
| Physics | 688 | 466 | 431 | 219 | 44 | 132 | 36 | 35 | 2 |
| Other physical sciences | 20 | 15 | 15 | 5 | 3 | 5 | 2 | 0 | 0 |
| Earth, atmospheric, and ocean sciences | 509 | 357 | 340 | 161 | 70 | 55 | 54 | 16 | 1 |
| Mathematics | 568 | 428 | 419 | 107 | 204 | 77 | 31 | 9 | 0 |
| Computer sciences | 458 | 344 | 329 | 24 | 126 | 144 | 35 | 11 | 4 |
| Biological sciences | 4,260 | 3,058 | 2,949 | 2,186 | 318 | 245 | 200 | 100 | 9 |
| Agricultural sciences | 501 | 319 | 302 | 75 | 100 | 82 | 45 | 16 | 1 |
| Psychology | 3,221 | 2,130 | 2,099 | 754 | 480 | 301 | 564 | 25 | 6 |
| Social sciences | 2,907 | 1,918 | 1,824 | 219 | 1,040 | 186 | 379 | 92 | 2 |
| Non-S&E, total | 12,773 | 8,657 | 8,445 | 508 | 4,788 | 623 | 2,526 | 188 | 24 |
| Grand total, all fields | 29,837 | 20,550 | 19,911 | 5,100 | 7,541 | 3,076 | 4,194 | 582 | 57 |

See explanatory information, if any, and SOURCE at end of table.

## Table 9. Postgraduation plans of science and engineering (S&E) doctorate recipients (U.S. citizens and non-U.S. citizens with permanent visas), by sex and major field: 2000



| Field of study | Total | Definite plans | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Total with definite plans | In the United States | | | | Abroad | Location unknown |
| | | | Total in U.S. | Postdoc study | Academic employment | Industry employment | Other | | |
| | Women | | | | | | | | |
| Science and engineering, total | 7,114 | 4,747 | 4,621 | 1,968 | 1,190 | 710 | 753 | 112 | 14 |
| Engineering, total | 484 | 321 | 312 | 71 | 56 | 144 | 41 | 7 | 2 |
| Aeronautical/astronautical | 14 | 9 | 9 | 2 | 0 | 5 | 2 | 0 | 0 |
| Chemical | 99 | 67 | 66 | 8 | 12 | 41 | 5 | 1 | 0 |
| Civil | 48 | 30 | 30 | 9 | 8 | 9 | 4 | 0 | 0 |
| Electrical | 90 | 58 | 55 | 6 | 10 | 31 | 8 | 2 | 1 |
| Industrial | 18 | 12 | 11 | 1 | 4 | 3 | 3 | 1 | 0 |
| Materials/metallurgical | 53 | 30 | 29 | 12 | 4 | 12 | 1 | 1 | 0 |
| Mechanical | 56 | 39 | 39 | 6 | 7 | 21 | 5 | 0 | 0 |
| Other engineering | 106 | 76 | 73 | 27 | 11 | 22 | 13 | 2 | 1 |
| Sciences, total | 6,630 | 4,426 | 4,309 | 1,897 | 1,134 | 566 | 712 | 105 | 12 |
| Physical sciences, total | 547 | 394 | 380 | 179 | 46 | 126 | 29 | 13 | 1 |
| Astronomy | 36 | 26 | 22 | 15 | 2 | 2 | 3 | 4 | 0 |
| Chemistry | 422 | 318 | 312 | 142 | 37 | 110 | 23 | 5 | 1 |
| Physics | 83 | 45 | 41 | 20 | 7 | 12 | 2 | 4 | 0 |
| Other physical sciences | 6 | 5 | 5 | 2 | 0 | 2 | 1 | 0 | 0 |
| Earth, atmospheric, and ocean sciences | 167 | 111 | 107 | 60 | 18 | 12 | 17 | 3 | 1 |
| Mathematics | 163 | 122 | 122 | 25 | 70 | 19 | 8 | 0 | 0 |
| Computer sciences | 86 | 64 | 62 | 4 | 27 | 21 | 10 | 0 | 2 |
| Biological sciences | 1,964 | 1,380 | 1,338 | 960 | 171 | 110 | 97 | 39 | 3 |
| Agricultural sciences | 165 | 99 | 94 | 30 | 29 | 22 | 13 | 4 | 1 |
| Psychology | 2,175 | 1,412 | 1,396 | 529 | 306 | 188 | 373 | 12 | 4 |
| Social sciences | 1,343 | 844 | 810 | 110 | 467 | 68 | 165 | 34 | 0 |
| Non-S&E, total | 7,474 | 5,017 | 4,930 | 309 | 2,767 | 328 | 1,526 | 75 | 12 |
| Grand total, all fields | 14,588 | 9,764 | 9,551 | 2,277 | 3,957 | 1,038 | 2,279 | 187 | 26 |

See explanatory information, if any, and SOURCE at end of table.

## Table 9. Postgraduation plans of science and engineering (S&E) doctorate recipients (U.S. citizens and non-U.S. citizens with permanent visas), by sex and major field: 2000



| Field of study | Total | Definite plans | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Total with definite plans | In the United States | | | | | Abroad | Location unknown |
| | | | Total in U.S. | Postdoc study | Academic employment | Industry employment | Other | | |
| | Men | | | | | | | | |
| Science and engineering, total | 9,950 | 7,146 | 6,845 | 2,624 | 1,563 | 1,743 | 915 | 282 | 19 |
| Engineering, total | 2,072 | 1,495 | 1,453 | 257 | 206 | 763 | 227 | 39 | 3 |
| Aeronautical/astronautical | 113 | 78 | 78 | 17 | 6 | 32 | 23 | 0 | 0 |
| Chemical | 281 | 204 | 196 | 45 | 10 | 130 | 11 | 7 | 1 |
| Civil | 212 | 140 | 137 | 19 | 41 | 53 | 24 | 3 | 0 |
| Electrical | 553 | 414 | 404 | 37 | 50 | 250 | 67 | 9 | 1 |
| Industrial | 59 | 46 | 43 | 5 | 18 | 15 | 5 | 3 | 0 |
| Materials/metallurgical | 190 | 140 | 132 | 30 | 12 | 69 | 21 | 8 | 0 |
| Mechanical | 339 | 235 | 230 | 41 | 33 | 122 | 34 | 5 | 0 |
| Other engineering | 325 | 238 | 233 | 63 | 36 | 92 | 42 | 4 | 1 |
| Sciences, total | 7,878 | 5,651 | 5,392 | 2,367 | 1,357 | 980 | 688 | 243 | 16 |
| Physical sciences, total | 1,537 | 1,129 | 1,059 | 559 | 107 | 330 | 63 | 66 | 4 |
| Astronomy | 104 | 81 | 71 | 49 | 7 | 9 | 6 | 10 | 0 |
| Chemistry | 814 | 615 | 588 | 308 | 60 | 198 | 22 | 25 | 2 |
| Physics | 605 | 423 | 390 | 199 | 37 | 120 | 34 | 31 | 2 |
| Other physical sciences | 14 | 10 | 10 | 3 | 3 | 3 | 1 | 0 | 0 |
| Earth, atmospheric, and ocean sciences | 342 | 246 | 233 | 101 | 52 | 43 | 37 | 13 | 0 |
| Mathematics | 405 | 306 | 297 | 82 | 134 | 58 | 23 | 9 | 0 |
| Computer sciences | 372 | 280 | 267 | 20 | 99 | 123 | 25 | 11 | 2 |
| Biological sciences | 2,276 | 1,678 | 1,611 | 1,226 | 147 | 135 | 103 | 61 | 6 |
| Agricultural sciences | 336 | 220 | 208 | 45 | 71 | 60 | 32 | 12 | 0 |
| Psychology | 1,046 | 718 | 703 | 225 | 174 | 113 | 191 | 13 | 2 |
| Social sciences | 1,564 | 1,074 | 1,014 | 109 | 573 | 118 | 214 | 58 | 2 |
| Non-S&E, total | 5,299 | 3,640 | 3,515 | 199 | 2,021 | 295 | 1,000 | 113 | 12 |
| Grand total, all fields | 15,249 | 10,786 | 10,360 | 2,823 | 3,584 | 2,038 | 1,915 | 395 | 31 |

**SOURCE:** National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates

## Table 10. Percentage distribution of definite postgraduation plans of science and engineering (S&E) doctorate recipients (U.S. citizens and non-U.S. citizens with permanent visas), by sex and major field: 2000



| Field of study | Definite plans | In the United States | | | | | Abroad | Location unknown |
|---|---|---|---|---|---|---|---|---|
| | | Total in U.S. | Postdoc study | Academic employment | Industry employment | Other | | |
| | All recipients | | | | | | | |
| Science and engineering, total | 100.0 | 96.4 | 38.6 | 23.1 | 20.6 | 14.0 | 3.3 | 0.3 |
| Engineering, total | 100.0 | 97.2 | 18.1 | 14.4 | 49.9 | 14.8 | 2.5 | .3 |
| Aeronautical/astronautical | 100.0 | 100.0 | 21.8 | 6.9 | 42.5 | 28.7 | 0 | 0 |
| Chemical | 100.0 | 96.7 | 19.6 | 8.1 | 63.1 | 5.9 | 3.0 | .4 |
| Civil | 100.0 | 98.2 | 16.5 | 28.8 | 36.5 | 16.5 | 1.8 | 0 |
| Electrical | 100.0 | 97.2 | 9.1 | 12.7 | 59.5 | 15.9 | 2.3 | .4 |
| Industrial | 100.0 | 93.1 | 10.3 | 37.9 | 31.0 | 13.8 | 6.9 | 0 |
| Materials/metallurgical | 100.0 | 94.7 | 24.7 | 9.4 | 47.6 | 12.9 | 5.3 | 0 |
| Mechanical | 100.0 | 98.2 | 17.2 | 14.6 | 52.2 | 14.2 | 1.8 | 0 |
| Other engineering | 100.0 | 97.5 | 28.7 | 15.0 | 36.3 | 17.5 | 1.9 | .6 |
| Sciences, total | 100.0 | 96.3 | 42.3 | 24.7 | 15.3 | 13.9 | 3.5 | .3 |
| Physical sciences, total | 100.0 | 94.5 | 48.5 | 10.0 | 29.9 | 6.0 | 5.2 | .3 |
| Astronomy | 100.0 | 86.9 | 59.8 | 8.4 | 10.3 | 8.4 | 13.1 | 0 |
| Chemistry | 100.0 | 96.5 | 48.2 | 10.4 | 33.0 | 4.8 | 3.2 | .3 |
| Physics | 100.0 | 92.1 | 46.8 | 9.4 | 28.2 | 7.7 | 7.5 | .4 |
| Other physical sciences | 100.0 | 100.0 | 33.3 | 20.0 | 33.3 | 13.3 | 0 | 0 |
| Earth, atmospheric, and ocean sciences | 100.0 | 95.2 | 45.1 | 19.6 | 15.4 | 15.1 | 4.5 | .3 |
| Mathematics | 100.0 | 97.9 | 25.0 | 47.7 | 18.0 | 7.2 | 2.1 | 0 |
| Computer sciences | 100.0 | 95.6 | 7.0 | 36.6 | 41.9 | 10.2 | 3.2 | 1.2 |
| Biological sciences | 100.0 | 96.4 | 71.5 | 10.4 | 8.0 | 6.5 | 3.3 | .3 |
| Agricultural sciences | 100.0 | 94.7 | 23.5 | 31.3 | 25.7 | 14.1 | 5.0 | .3 |
| Psychology | 100.0 | 98.5 | 35.4 | 22.5 | 14.1 | 26.5 | 1.2 | .3 |
| Social sciences | 100.0 | 95.1 | 11.4 | 54.2 | 9.7 | 19.8 | 4.8 | .1 |
| Non-S&E, total | 100.0 | 97.6 | 5.9 | 55.3 | 7.2 | 29.2 | 2.2 | .3 |
| Grand total, all fields | 100.0 | 96.9 | 24.8 | 36.7 | 15.0 | 20.4 | 2.8 | .3 |

See explanatory information, if any, and SOURCE at end of table.

## Table 10. Percentage distribution of definite postgraduation plans of science and engineering (S&E) doctorate recipients (U.S. citizens and non-U.S. citizens with permanent visas), by sex and major field: 2000



| Field of study | Definite plans | In the United States | | | | | Abroad | Location unknown |
|---|---|---|---|---|---|---|---|---|
| | | Total in U.S. | Postdoc study | Academic employment | Industry employment | Other | | |
| | Women | | | | | | | |
| Science and engineering, total | 100.0 | 97.3 | 41.5 | 25.1 | 15.0 | 15.9 | 2.4 | 0.3 |
| Engineering, total | 100.0 | 97.2 | 22.1 | 17.4 | 44.9 | 12.8 | 2.2 | .6 |
| Aeronautical/astronautical | 100.0 | 100.0 | 22.2 | 0 | 55.6 | 22.2 | 0 | 0 |
| Chemical | 100.0 | 98.5 | 11.9 | 17.9 | 61.2 | 7.5 | 1.5 | 0 |
| Civil | 100.0 | 100.0 | 30.0 | 26.7 | 30.0 | 13.3 | 0 | 0 |
| Electrical | 100.0 | 94.8 | 10.3 | 17.2 | 53.4 | 13.8 | 3.4 | 1.7 |
| Industrial | 100.0 | 91.7 | 8.3 | 33.3 | 25.0 | 25.0 | 8.3 | 0 |
| Materials/metallurgical | 100.0 | 96.7 | 40.0 | 13.3 | 40.0 | 3.3 | 3.3 | 0 |
| Mechanical | 100.0 | 100.0 | 15.4 | 17.9 | 53.8 | 12.8 | 0 | 0 |
| Other engineering | 100.0 | 96.1 | 35.5 | 14.5 | 28.9 | 17.1 | 2.6 | 1.3 |
| Sciences, total | 100.0 | 97.4 | 42.9 | 25.6 | 12.8 | 16.1 | 2.4 | .3 |
| Physical sciences, total | 100.0 | 96.4 | 45.4 | 11.7 | 32.0 | 7.4 | 3.3 | .3 |
| Astronomy | 100.0 | 84.6 | 57.7 | 7.7 | 7.7 | 11.5 | 15.4 | 0 |
| Chemistry | 100.0 | 98.1 | 44.7 | 11.6 | 34.6 | 7.2 | 1.6 | .3 |
| Physics | 100.0 | 91.1 | 44.4 | 15.6 | 26.7 | 4.4 | 8.9 | 0 |
| Other physical sciences | 100.0 | 100.0 | 40.0 | 0 | 40.0 | 20.0 | 0 | 0 |
| Earth, atmospheric, and ocean sciences | 100.0 | 96.4 | 54.1 | 16.2 | 10.8 | 15.3 | 2.7 | .9 |
| Mathematics | 100.0 | 100.0 | 20.5 | 57.4 | 15.6 | 6.6 | 0 | 0 |
| Computer sciences | 100.0 | 96.9 | 6.3 | 42.2 | 32.8 | 15.6 | 0 | 3.1 |
| Biological sciences | 100.0 | 97.0 | 69.6 | 12.4 | 8.0 | 7.0 | 2.8 | .2 |
| Agricultural sciences | 100.0 | 94.9 | 30.3 | 29.3 | 22.2 | 13.1 | 4.0 | 1.0 |
| Psychology | 100.0 | 98.9 | 37.5 | 21.7 | 13.3 | 26.4 | .8 | .3 |
| Social sciences | 100.0 | 96.0 | 13.0 | 55.3 | 8.1 | 19.5 | 4.0 | 0 |
| Non-S&E, total | 100.0 | 98.3 | 6.2 | 55.2 | 6.5 | 30.4 | 1.5 | .2 |
| Grand total, all fields | 100.0 | 97.8 | 23.3 | 40.5 | 10.6 | 23.3 | 1.9 | .3 |

See explanatory information, if any, and SOURCE at end of table.

**Table 10. Percentage distribution of definite postgraduation plans of science and engineering (S&E) doctorate recipients (U.S. citizens and non-U.S. citizens with permanent visas), by sex and major field: 2000**



| Field of study | Definite plans | In the United States | | | | | Abroad | Location unknown |
|---|---|---|---|---|---|---|---|---|
| | | Total in U.S. | Postdoc study | Academic employment | Industry employment | Other | | |
| | Men | | | | | | | |
| Science and engineering, total | 100.0 | 95.8 | 36.7 | 21.9 | 24.4 | 12.8 | 3.9 | 0.3 |
| Engineering, total | 100.0 | 97.2 | 17.2 | 13.8 | 51.0 | 15.2 | 2.6 | .2 |
| Aeronautical/astronautical | 100.0 | 100.0 | 21.8 | 7.7 | 41.0 | 29.5 | 0 | 0 |
| Chemical | 100.0 | 96.1 | 22.1 | 4.9 | 63.7 | 5.4 | 3.4 | .5 |
| Civil | 100.0 | 97.9 | 13.6 | 29.3 | 37.9 | 17.1 | 2.1 | 0 |
| Electrical | 100.0 | 97.6 | 8.9 | 12.1 | 60.4 | 16.2 | 2.2 | .2 |
| Industrial | 100.0 | 93.5 | 10.9 | 39.1 | 32.6 | 10.9 | 6.5 | 0 |
| Materials/metallurgical | 100.0 | 94.3 | 21.4 | 8.6 | 49.3 | 15.0 | 5.7 | 0 |
| Mechanical | 100.0 | 97.9 | 17.4 | 14.0 | 51.9 | 14.5 | 2.1 | 0 |
| Other engineering | 100.0 | 97.9 | 26.5 | 15.1 | 38.7 | 17.6 | 1.7 | .4 |
| Sciences, total | 100.0 | 95.4 | 41.9 | 24.0 | 17.3 | 12.2 | 4.3 | .3 |
| Physical sciences, total | 100.0 | 93.8 | 49.5 | 9.5 | 29.2 | 5.6 | 5.8 | .4 |
| Astronomy | 100.0 | 87.7 | 60.5 | 8.6 | 11.1 | 7.4 | 12.3 | 0 |
| Chemistry | 100.0 | 95.6 | 50.1 | 9.8 | 32.2 | 3.6 | 4.1 | .3 |
| Physics | 100.0 | 92.2 | 47.0 | 8.7 | 28.4 | 8.0 | 7.3 | .5 |
| Other physical sciences | 100.0 | 100.0 | 30.0 | 30.0 | 30.0 | 10.0 | 0 | 0 |
| Earth, atmospheric, and ocean sciences | 100.0 | 94.7 | 41.1 | 21.1 | 17.5 | 15.0 | 5.3 | 0 |
| Mathematics | 100.0 | 97.1 | 26.8 | 43.8 | 19.0 | 7.5 | 2.9 | 0 |
| Computer sciences | 100.0 | 95.4 | 7.1 | 35.4 | 43.9 | 8.9 | 3.9 | .7 |
| Biological sciences | 100.0 | 96.0 | 73.1 | 8.8 | 8.0 | 6.1 | 3.6 | .4 |
| Agricultural sciences | 100.0 | 94.5 | 20.5 | 32.3 | 27.3 | 14.5 | 5.5 | 0 |
| Psychology | 100.0 | 97.9 | 31.3 | 24.2 | 15.7 | 26.6 | 1.8 | .3 |
| Social sciences | 100.0 | 94.4 | 10.1 | 53.4 | 11.0 | 19.9 | 5.4 | .2 |
| Non-S&E, total | 100.0 | 96.6 | 5.5 | 55.5 | 8.1 | 27.5 | 3.1 | .3 |
| Grand total, all fields | 100.0 | 96.1 | 26.2 | 33.2 | 18.9 | 17.8 | 3.7 | .3 |

**SOURCE:** National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates

The National Science Foundation promotes and advances scientific progress in the United States by competitively awarding grants for research and education in the sciences, mathematics and engineering.

To get the latest information about program deadlines, to download copies of NSF publications, and to access abstracts of awards, visit the NSF Web site at:

http://www.nsf.gov

| | |
|---|---|
| Location: | 4201 Wilson Blvd.<br>Arlington, VA 22230 |
| For General Information (NSF Information Center): | (703) 292-1111 |
| TDD (for the hearing-impaired): | (703) 292-5090 |
| To Order Publications or Forms: | |
| Send an e-mail to: | paperpubs@nsf.gov |
| or telephone: | (301) 947-2722 |
| To Locate NSF Employees: | (703) 292-8183 |

The Foundation provides awards for research and education in the sciences and engineering. The awardee is wholly responsible for the conduct of such research and preparation of the results for publication. The Foundation, therefore, does not assume responsibility for the research findings or their interpretation.

The Foundation welcomes proposals from all qualified scientists and engineers and strongly encourages women, minorities, and persons with disabilities to compete fully in any of the research and education related programs described here. In accordance with Federal statutes, regulations, and NSF policies, no person on grounds of race, color, age, sex, national origin, or disability shall be excluded from participation in, be denied the benefits of, or be subject to discrimination under any program or activity receiving financial assistance from the National Science Foundation.

Facilitation Awards for Scientists and Engineers with Disabilities (FASED) provide funding for special assistance or equipment to enable persons with disabilities (investigators and other staff, including student research assistants) to work on NSF projects. See the program announcement or contact the program coordinator at 703-292-8636.

The National Science Foundation has TDD (Telephonic Device for the Deaf) capability, which enables individuals with hearing impairment to communicate with the Foundation about NSF programs, employment, or general information. To access NSF TDD dial 703-292-5090; for FIRS, 1-800-877-8339.

NATIONAL SCIENCE FOUNDATION
ARLINGTON, VA 22230

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE $300

RETURN THIS COVER SHEET TO ROOM P35 IF YOU DO NOT WISH TO RECEIVE THIS MATERIAL ☐, OR IF CHANGE OF ADDRESS IS NEEDED ☐, INDICATE CHANGE INCLUDING ZIP CODE ON THE LABEL (DO NOT REMOVE LABEL).

PRESORTED STANDARD
POSTAGE & FEES PAID
National Science Foundation
Permit No. G-69

NSF 02-305